55-1520-210-23-3

TM 55-1520-210-23-3

TECHNICAL MANUAL

# AVIATION UNIT AND INTERMEDIATE MAINTENANCE INSTRUCTIONS ARMY MODEL UH-1H/V/EH-1H/X

This manual supersedes TM 55-1520-210-23-3, 20 February 1979, including all changes.

This copy is a reprint which includes current pages from Changes 1.

HEADQUARTERS, DEPARTMENT OF THE ARMY
30 SEPTEMBER 1987

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HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 8 November 1988

## Aviation Unit and Intermediate Maintenance Instructions

## ARMY MODEL UH-1H/V/EH-1H/X HELICOPTERS

TM 55-1520-210-23-3, 30 September 1987, is changed as follows:

1. Remove and insert pages as indicated below. New or changed text material is indicated by a vertical bar in the margin. An illustration change is indicated by a miniature pointing hand.

| Remove pages | Insert pages |
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| B-3 and B-4 | B-3 and B-4 |
| - - - | B-22.1/B-22.2 |
| B-23 and B-24 | B-23 and B-24 |
| D-1 through D-4 | D-1 through D-4 |
| D-171 and D-172 | D-171 and D-172 |
| D-427 | D-427 and D-428 |

2. Retain this sheet in front of manual for reference purposes.

**By Order of the Secretary of the Army:**

**CARL E. VUONO,**
*General, United States Army*
*Chief of Staff*

**Official:**

**WILLIAM J.MEEHAN II**
*Brigadier General, United States Army*
*The Adjutant General*

DISTRIBUTION:
To be distribution in accordance with DA Form 12-31, AVUM and AVIM requirements for UH-1H/V Helicopter, Utility, EH-1H Helicopter, Electronic Countermeasure and EH-1X Helicopter, Electronic Countermeasure & Intercept.

**URGENT**

TECHNICAL MANUAL

No. 55-1520-210-23-3

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., *30 September 1987.*

## Aviation Unit and Intermediate Maintenance Instructions

# ARMY MODEL UH-1H/V/EH-1H/X HELICOPTERS

NOTE:

This manual is printed in three volumes as follows:

TM 55-1520-210-23-1, consisting of Table of Contents, preface, Chapters 1 through 6.

TM 55-1520-210-23-2, consisting of Table of Contents, Chapters 7 through 17.

TM 55-1520-210-23-3, consisting of Table of Contents, Appendix A through F, and Index.

The Appendices and Index are applicable to all volumes.

## WARNING

Personnel performing operations, procedures, and practices which are included or implied in this technical manual shall observe the following warnings. Disregard of these warnings and precautionary information can cause serious injury, or death.

Warnings, cautions, and notes are used to emphasize important and critical instructions and are used for the following conditions:

## WARNING

An operating procedure, practice, etc., which, if not carrectly followed, could result in personal injury or loss of life.

## CAUTION

An operating procedure, practice, etc., which, if not strictly observed, could result in damage to or destruction of equipment.

## NOTE

An operating procedure, condition, etc., which it is essential to highlight.

## NOISE

Sound pressure levels in this helicopter during some operating conditions exceed the Surgeon General hearing conservation criteria, as defined in TB MED 251. Hearing protection devices, such as aviator helmet or ear plugs are required to be worn by all personnel in and around the helicopter during its operation.

## ELECTROLYTE

Corrosive Battery Electrolyte (Potassium Hydroxide). Wear rubber gloves, apron, and face shield when handling leaking batteries. If potassium hydroxide is spilled on clothing, or other material wash immediately with clean water. If spilled on personnel, immediately start flushing the affected area with clean water. Continue washing until medical assistance arrives.

## TOXIC POISONS

Turbine fuels and lubricating oils contain additives which are poisonous and readily absorbed through the skin. Do not allow them to remain on skin longer than necessary.

## STARTING HELICOPTER

Starting and operation of the helicopter will be performed only by authorized personnel in accordance with AR95-1.

## GROUNDING HELICOPTER

The helicopter should be electrically grounded when parked. Turn off all power switches before making electrical connections or disconnections. Serious burns and electrical shock can result from contact with exposed electrical wires or connectors.

Before removing any engine ignition system component, ground the leads to dissipate any stored voltage in ignition unit.

## FIRE EXTINGUISHER

Exposure to high concentrations of monobromotrifluoromethane (CF3BR) extinguishing agent or decomposition products should be avoided. The liquid should not be allowed to come into contact with the skin, as it may cause frost bite or low temperature burns.

## ARMAMENT

Loaded weapons, or weapons being loaded or unloaded, shall be pointed in a direction which offers the least exposure to personnel or property in the event of accidental firing. Personnel shall remain clear of hazardous area of all loaded weapons.

ANY ROTATION OF THE GUN ARMAMENT SUBSYSTEM BARRELS WILL CAUSE THE GUN TO FIRE. Upon landing, immediately alert personnel to probable presence of live rounds in the gun. Summon armament repairman to clear weapon.

## FUELING AND DEFUELING

When refueling helicopter, the refueling vehicle or forward air refueling unit must be parked a minimum of 20 feet from the helicopter. Before starting the fueling operation, always insert fueling nozzle grounding chain of fuel truck ground wire into GROUND HERE receptacle located on the right side of the helicopter aft of the cabin area. Refer to TM 10-1101.

When defueling, turn off all electrical switches and disconnect external power from the helicopter. The helicopter must be electrically grounded prior to defueling.

## RADIOACTIVE MATERIALS

Self-luminous dials and ignition units may contain radioactive materials. If such an instrument or unit is broken or becomes unsealed, avoid personal contact. Use forceps or gloves made of rubber or polyethylene to pick up contaminated material. Place materials and gloves in a plastic bag. Seal bag and dispose of it as radioactive waste in accordance with AR755-15 and TM 3-261 (Refer to 55-1500-314-25). Repair procedures shall conform to requirements in AR700-52.

## CLEANING SOLVENTS

Cleaning solvents may be flamable and toxic. Use only in well ventilated areas. Avoid inhalation of vapor and skin contact. Do not use solvents near open flame or in areas where very high temperatures prevail.

## ROTOR BLADES

Personnel will stay clear of rotor blades during operation. Refer to Chapter 1 for rotor blade dimensions and clearances.

**TECHNICAL MANUAL**

**TM 55-1520-210-23-3**

**HEADQUARTERS**
**DEPARTMENT OF THE ARMY**
**WASHINGTON, D.C., 30 September 1987**

# AVIATION UNIT AND INTERMEDIATE MAINTENANCE INSTRUCTIONS ARMY MODEL UH-1H/V/EH-1H/X HELICOPTER

## REPORTING OF ERRORS

You can help improve this manual. If you find any mistake or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual direct to Commander, US Army Troop Support and Aviation Material Readiness Command, ATTN: DRSTS-MMD, 4300 Goodfellow Blvd., St. Louis, MO 63120. A reply will be furnished to you.

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## REFERENCES

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| AR 95-1 | Army Aviation General Provisions and Flight Regulations |
| AR 95-16 | Weight and Balance Army Aircraft |
| AR 310-50 | Authorized Abbreviations and Brevity Codes |
| DA Form 1577-2 | Unserviceable/Reparable Tag |
| DA Form 2028 | Recommended Changes to Publications and Blank Forms |
| DA Form 2408-13 | Aircraft Inspection and Maintenance Record |
| DA Form 2410 | Component Removal and Repair/Overhaul Record |
| DA PAM 738-751 | Functional Users Manual for the Army Maintenance Management Systems Aviation |
| FM 10-68 | Aircraft Refueling |
| FM 10-69 | Petroleum Supply Point Equipment and Operation |
| MIL-STD-12C | Abbreviations for Use on Drawings, Specifications, Standards and in Technical Documents |
| TB MED 501 | Noise and Conservation of Hearing |
| TB 43-0002-3 | Maintenance Expenditure Limitations for Army Aircraft |
| TB 43-0106 | Aeronautical Equipment Army Oil Analysis Program (AOAP) |
| TB 43-180 | Calibration Requirements for the Maintenance of Army Materiel |
| TB 55-1500-314-24 | Aircraft Components Requiring Maintenance Management and Historical Data |
| TB 55-1500-314-25 | Handling, Storage, and Disposal of Army Aircraft Components Containing Radioactive Materiels |
| TB 55-1500-334-25 | Conversion to Fire Resistant Hydraulic Fluid |
| TB 55-1500-337-24 | Phased Maintenance System for Army Aircraft |
| TB 55-1520-208-10-3 | Operating Instructions: Quad 7.62MM Machine Gun, Helicopter Armament Subsystem XM6E3 |
| TB 55-9150-200-24 | Engine and Transmission Oils, Fuels, and Additives for Army Aircraft |

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| TB 750-25 | Maintenance of Supplies and Equipment: Army Metrology and Calibration System |
| TB 750-126 | Use of Materiel Condition Tags and Labels of Army Aeronautical and Air Delivery Equipment |
| TM 1-7R1-3-1-1 | Cleaning, Testing, and Corrosion Treatment of Air Cooled Aluminum, Brass, and Copper Type Oil Coolers |
| TM 1-15H1-2-10-3 | Overhaul Instructions: Aircraft Heaters and Accessories (Janitrol Aircraft—Automotive Division) (Surface Combustion Corp.) |
| TM 3-220 | Chemical, Biological, and Radiological (CBR) Decontamination |
| TM 43-0103 | Nondestructive Inspection Method |
| TM 43-0105 | Corrosion Control for Army Aircraft |
| TM 9-1005-243-12 | Operator and Organizational Maintenance Manual (Including Repair Parts and Special Tools List): Armament Subsystem, Helicopter, 7.62MM Machine Gun: Quad M6 (XM6E3) |
| TM 9-1005-262-14 | Operator, Organizational, DS, and GS Maintenance Manual for Armament Subsystem, Helicopter, 7.62MM Machine Gun: Door Mounted, Lightweight, M23 (1005-907-0720) |
| TM 9-1005-304-12 | Operator's and Organizational Maintenance Manual: Armament Subsystem, Helicopter, 7.62MM Machine Gun, Caliber .50 Machine Gun: Door Mounted, M59 (1005-133-8224) |
| TM 9-1345-201-12 | Mine Dispersing Subsystem, Aircraft: M56 |
| TM 9-1345-201-30 | Direct Support Maintenance Manual (Including Repair Parts and Special Tools List): Mine Dispersing Subsystem, Aircraft: M56 (NSN 1345-00-313-1398) |
| TM 10-1101 | Petroleum Handling Equipment and Operation (See FM 10-68 and FM 10-69 for Fueling and Defueling Aircraft) |
| TM 11-1520-210-E&C | Equipment Serviceability Criteria for Electronic Equipment Configuration in Army Models UH-1B/C/D Helicopters |
| TM 11-1520-210-20 | Organizational Maintenance Manual: Electronic Equipment Configurations, Army Model UH-1D/H Helicopter |
| TM 11-1520-210-34P | Direct Support and General Maintenance Repair Parts and Special Tools List (Including Depot Maintenance Repair Parts and Special Tools): Electronic Equipment Configuration, Army Models UH-1D and UH-1H Helicopters |
| TM 11-5841-272-20 | Organizational Maintenance Manual, Altimeter Set, Electronic, AN/AP-N-171A(V)1 |

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| TM 11-5895-776-14-1 | Operator, Organizational, Direct Support and General Support Manual, Countermeasures System, Radio AN/ARQ-33 |
| TM 11-6125-220-12 | Operational Maintenance Manual: Motor-Generators PU-543/A, PU-543A/A, PU-543B/A, and PU-543C/A (MS-21983) |
| TM 11-6140-203-14-2 | Operators Organizational, Direct Support, General Support and Depot Maintenance Manual Including Repair Parts and Special Tools List: Aircraft Nickel-Cadmium Batteries |
| TM 43-0105 | Corrosion Control for Army Aircraft |
| TM 55-1500-204-25/1 | General Aircraft Maintenance Manual |
| TM 55-1520-242-MTF | Aircraft Maintenance Test Flight Manual for UH-1B, C, D, M Aircraft |
| TM 55-1520-242-S | Preparation for Shipment of UH-1 Helicopters |
| TM 55-1500-307-24 | Aircraft Components Requiring Maintenance, Management and Historical Data |
| TM 55-1500-326-25 | Standards of Serviceability for Transfer of Aircraft |
| TM 55-1500-328-25 | Aeronautical Equipment Maintenance Management Policies and Procedures |
| TM 55-1500-342-23 | Army Aviation Maintenance Engineering Manual: Weight and Balance |
| TM 55-1500-333-24 | Cleaning Procedures for Army Aircraft |
| TM 55-1500-345-23 | Painting and Marking of Army Aircraft |
| TM 55-1520-210-PM | UH-1D/H Aircraft: Phased Maintenance Checklist |
| TM 55-1520-210-PMD | UH-1D/H Aircraft: Preventive Maintenance Daily Inspection Checklist |
| TM 55-1520-210-10 | Operator's Manual: Army Model UH-1D/H Helicopters |
| TM 55-1520-210-23P | Aviation Unit and Intermediate Maintenance Repair Parts and Special Tools List (Including Depot Maintenance Repair Parts and Special Tools) |
| TM 55-1520-247-10 | Operator's Manual: Army Model EH-1H Helicopter |
| TM 55-2620-200-24 | Inspection, Maintenance Instructions, Storage, and Disposition of Aircraft Tires and Inner Tubes |
| TM 55-2840-229-23P | Aviation Unit and Intermediate Maintenance Repair Parts and Special Tools List |
| TM 55-4920-201-14 | Operator's Organizational, DS and GS Maintenance Manual Including Repair Parts and Special Tool List: Balancing and Adapter Kits (Marvel) |
| TM 55-4920-244-14 | Operator's Organizational, Direct Support and General Support Maintenance Manual |
| TM 750-244-1-5 | Procedures for Destruction of Aircraft and Associated Equipment to Prevent Enemy Use |
| TM 740-90-1 | Administrative Storage of Equipment |

# APPENDIX B

# MAINTENANCE ALLOCATION CHART

## SECTION I. THREE LEVELS OF MAINTENANCE CONCEPT

### INTRODUCTION

### B-1. MAINTENANCE ALLOCATION CHART.

**a.** This Maintenance Allocation Chart (MAC) assigns maintenance functions in accordance with the Three Levels of Maintenance concept for army aircraft. These maintenance levels, Aviation Unit Maintenance (AVUM); Aviation Intermediate Maintenance (AVIM) and Depot Maintenance are depicted on the MAC as:

AVUM which corresponds to the O Code in the RPSTL.
AVIM which corresponds to an F Code in the RPSTL.
DEPOT which corresponds to a D Code in the RPSTL

**b.** The maintenance to be performed below depot and in the field is described as follows:

**(1)** Aviation Unit Maintenance (AVUM) activities will be staffed and equipped to perform high frequency "On-Aircraft" maintenance tasks required to retain or return aircraft to a serviceable condition. The maintenance capability of the AVUM will be governed by the Maintenance Allocation Chart (MAC) and limited by the amount and complexity of ground support equipment (GSE), facilities required, and number of spaces and critical skills available. The range and quantity of authorized spare modules/components will be consistent with the mobility requirements dictated by the air mobility concept. (Assignments of maintenance tasks to divisional company size aviation units will consider the overall maintenance capability of the division, the requirement to conserve personnel and equipment resources and air mobility requirements.)

**(a)** Company Size Aviation Units: Perform those tasks which consist primarily of preventive maintenance and maintenance repair and replacement functions associated with sustaining a high level of aircraft operational readiness. Perform maintenance inspections and servicing to include preflight, daily, intermediate, periodic and special inspections as authorized by the MAC or higher headquarters. Identify the cause of equipment/system malfunctions using applicable technical manual troubleshooting instructions, built-in-test equipment (BITE), installed aircraft instruments, or easy to use/interpret diagnostic/fault isolation devices (TMDE). Replace worn or damaged modules/components which do not require complex adjustments or system alignment and which can be removed/installed with available skills, tools and equipment. Perform operational and continuity checks and make minor repairs to the electrical system. Inspect, service and make operational, capacity and pressure checks to hydraulic systems. Perform servicing, functional adjustments, and minor repair/replacement to the flight control, propulsion, power train and fuel systems. Accomplish air frame repair which does not require extensive disassembly, jigging, or alignment. The manufacture of air frame parts will be limited to those items which can be fabricated with tools and equipment found in current air mobile tool and shop sets. Evacuate unserviceable modules/components and end items beyond the repair capability of AVUM to the supporting AVIM.

**(b)** Less than Company Size Aviation Units: Aviation elements organic to brigade, group, battalion headquarters and detachment size units are normally small and have less than ten aircraft assigned. Maintenance tasks performed by these units will be those which can be accomplished by the aircraft crew chief or assigned aircraft repairman and will normally be limited to preventive maintenance, inspections, servicing, spot painting, stop drilling, application of nonstress patches, minor adjustments, module/component fault diagnosis and replacement of selected modules/components. Repair functions will normally be accomplished by the supporting AVIM unit.

(2) Aviation Intermediate Maintenance (AVIM) provides mobile, responsive "One Stop" maintenance support. (Maintenance functions which are not conducive to sustaining air mobility will be assigned to depot maintenance). Performs all maintenance functions authorized to be done at AVUM. Repair of equipment for return to user will emphasize support or operational readiness requirements. Authorized maintenance includes replacement and repair of modules/components and end items which can be accomplished efficiently with available skills, tools, and equipment. Established the Direct Exchange (DX) program for AVUM units by repairing selected items for return to stock when such repairs cannot be accomplished at the AVUM level. Inspects, troubleshoots, tests, diagnoses, repairs, adjusts, calibrates, and aligns aircraft system modules/components. AVIM units will have the capability to determine the serviceability of specified modules/components removed prior to the expiration of the Time Between Overhaul (TBO) or finite life. Module/component disassembly and repair will support the DX program and will normally be limited to tasks requiring cleaning and the replacement of seals, fittings and items of common hardware. Air frame repair and fabrication of parts will be limited to those maintenance tasks which can be performed with available tools and test equipment. Unserviceable reparable modules/components and end items which are beyond the capability of AVIM to repair will be evacuated to Depot Maintenance. This level will perform aircraft weight and balance inspections and other special inspections which exceed AVUM capability. Provides quick response maintenance support, including aircraft recovery and air evacuation, on-the-job training, and technical assistance through the use of mobile maintenance contact teams. Maintains authorized operational readiness float aircraft. Provides collection and classification services for serviceable/unserviceable material. Operates a cannibalization activity in accordance with AR 750-50. (The aircraft maintenance company within the maintenance battalion of a division will perform AVIM functions consistent with air mobility requirements and conservation of personnel and equipment resources. Additional intermediate maintenance support will be provided by the supporting nondivisional AVIM unit.)

## B-2. USE OF THE MAINTENANCE ALLOCATION CHART.

a. The Maintenance Allocation chart assigns maintenance functions to the lowest level of maintenance based on past experience and the following consideration:

(1) Skills available.

(2) Time required.

(3) Tools and test equipment required and/or available.

b. Only the lowest level of maintenance authorized to perform a maintenance function is indicated.

c. A maintenance function assigned to a maintenance level will automatically be authorized to be performed at any higher maintenance level.

d. A maintenance function that cannot be performed at the assigned level of maintenance for any reason may be evacuated to the next higher maintenance organization. Higher maintenance levels will perform the maintenance functions of lower maintenance levels when required or directed by the appropriate commander.

e. The assignment of a maintenance function will not be construed as authority to carry the associated repair parts in stock. Authority to requisition, stock, or otherwise secure necessary repair parts will be as specified in the repair parts appendix.

f. Normally there will be no divation from the assigned level of maintenance. In cases of operational neccessity, maintenance functions assigned to a higher maintenance level may, at the request of the lower maintenance level, be specifically authorized by the maintenance officer of the level of maintenance to which the function is assigned. The special tools, equipment, etc. required by the lower level of maintenance to perform this function will be furnished by the maintenance level to which the function is assigned. This transfer of a maintenance function to a lower maintenance level does not relieve the higher maintenance level of the responsibility of the function. The higher level of maintenance will provide technical supervision and inspection of the function being performed at the lower level.

g. Organizational through depot maintenance of the U.S. Army Electronics Command equipment will be performed by designated U.S. Army Electronics Command personnel.

h. Changes to the Maintenance Allocation Chart will be based on continuing evaluation and analysis by responsible technical personnel and on reports received from field activities.

## B-3. DEFINITIONS.

Maintenance functions. Maintenance functions will be limited to and defined as follows:

a. **Inspect.** To determine the serviceability of an item by comparing its physical, mechanical and/or electrical characteristics with established standards through examination.

b. **Test.** To verify serviceability and detect incipient failure by measuring the mechanical or electrical characteristics of an item and comparing those characteristics with prescribed standards.

c. **Service.** Operations required periodically to keep an item in proper operating condition, i.e. to clean (decontaminate), to preserve, to drain, to paint, or to replenish fuel, lubricants, hydraulic fluids, or compressed air supplies.

d. **Adjust.** To maintain, within prescribed limits, by bringing into proper or exact position, or by setting the operating characteristics to specified parameters.

e. **Align.** To adjust specified variable elements of an item to bring about optimum or desired performance.

f. **Calibrate.** To determine and cause corrections to be made or to be adjusted on instruments or test measuring and diagnostic equipments used in precision measurement. Consists of comparisons of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared.

g. **Install.** The act of emplacing, seating, or fixing into position an item, part, or module (component or assembly) in a manner to allow the proper functioning of an equipment or system.

h. **Replace.** The act of substituting a serviceable like type part, subassembly, or module (component or assembly) for an unserviceable counterpart.

i. **Repair.** The application of maintenance services or other maintenance action to restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module (component or assembly), end item, or system.

j. **Overhaul.** That maintenance effort (service/action) necessary to restore an item to a completely serviceable/operational condition as prescribed by maintenance standards (i.e. DMWR) in appropriate technical publications. Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new condition.

k. **Rebuild.** Consists of those services/actions necessary for the restoration of unserviceable equipment to a like new condition in accordance with original manufacturing standards. Rebuild is the highest degree of materiel maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (hours/miles, etc.) considered in classifying Army equipments/components.

## B-4. STANDARD GROUPS.

The standard groupings shown below are used, as applicable, throughout this MAC Maintenance manuals and RPSTLs reflect these standard groupings as individual chapters with sections in each chapter relative to the individual complete systems, subsystems, modules, components, assemblies, or specific parts noted.

### AIRFRAME ITEMS

| GROUP NUMBER | DESCRIPTION |
|---|---|
| 00 | Aircraft System |
| 01 | Aircraft General<br>Servicing, handling, inspection requirements, lubrication requirements, overhaul and retirement requirements, cleaning, mooring, towing, jacking, hoisting, preservation requirements, weight and balance requirements, spot painting, complete painting, and subassembly painting requirements. |
| 02 | Airframe<br>Fuselage, empennage, pylons, wings, mounts (engine and transmission), armor, seats, ramps, decks, and tiedowns. |
| 03 | Alighting Gear<br>Landing gear, skids, floats, skis, struts, wheel brakes, and mechanical mechanisms. |
| 04 | Power Plant Installation<br>Removal, installation, cooling systems, air induction, exhaust, oil systems, components, ignition systems, power control, harnesses, carburetors, fuel controls, pumps (engine driven), filters/particle separators, and Quick Change Assemblies (QCA). (See Power Plant Items, figure 2, for more detailed functions.) |
| 05 | Propellors/Rotors Systems<br>Propellors, governors, rotors (main and tail), hubs, blades, dampeners, stabilizer bars, swashplates, hub moment springs, and support assemblies. |
| 06 | Drive Train Systems<br>Transmissions, gearboxes, clutches, shafting, oil systems, bearings, hangers, oil tanks, and freewheeling units. |
| 07 | Hydraulic and Pneumatic Systems<br>Pumps, filters, reservoirs, cylinders, valves, servos, motors, starters and accumulators. |
| 08 | Instrument Systems<br>Flight instruments, navigation instruments, engine instruments, miscellaneous instruments (i.e., clocks), sending units, panels, and flow meters. |
| 09 | Electrical Systems<br>Motors, actuators, regulators, generators, starters, batteries, lighting, caution and warning lights, inverters, fault isolation systems, rotor brakes, and avionics provisions. |
| 10 | Fuel Systems<br>Tanks, cells, filters, pumps, valves, auxiliary fuel systems, and refueling systems. |
| 11 | Flight Controls System<br>Control sticks, pedals, cables, pulleys, push-pull rods, torque tubes, quadrants, force gradients, control surfaces, bellcranks, and trim actuators (mechanical). |

| GROUP NUMBER | DESCRIPTION | GROUP NUMBER | DESCRIPTION |
|---|---|---|---|
| 12 | Utility Systems<br>Fire detecting/extinguishing systems, oxygen systems, windshield wiper systems, mirrors, and de-ice/anti-ice systems. | 16 | Mission Equipment<br>Spraying equipment, stores, racks, armament, reconnaissance, photography,pods, and litters. |
| 13 | Environmental Control Systems (ECS)<br>Heaters, air conditioners, defrosters, control mixing valves, and ducts. | 17 | Emergency Equipment<br>Ejection seats, canopies, jettison system, portable fire extinguishers, axes, and first aid kits. |
| 14 | Hoists and Winches<br>Cargo/rescue hoists, winches, hooks, slings, loading systems, and emergency release systems. |  | Installed Avionics Components |
| 15 | Auxiliary Power Plants (APP)<br>Fuel, exhaust, and ducting. | 18 | Communications and Navigational Black Boxes. |

## B-5. SYMBOLS.

The letters "AVUM, AVIM AND DEPOT" as placed on the Maintenance Allocation Chart indicate the level of Maintenance responsible for performing the particular maintenance function based upon assigned skills, tools and test equipment and time required to accomplish maintenance.

## B-6. WORK TIMES.

The symbol —•— identifies the level of Maintenance authorized to perform a maintenance function and indicates that work time figures are being developed and will be entered at a later date. When developed, this time will appear: for example, as 0.1 and also indicates the level of authorized maintenance.

## B-7. TOOLS AND TEST EQUIPMENT (SECTION III).

Special tools, test, and support equipment required to do maintenance functions are listed with a reference number to permit cross-referencing to column 5 in the MAC. In addition, the maintenance category authorized to use the device is listed along with the item National Stock Number and if applicable, the number to aid in identifying the tool/device.

## B-8. REMARKS (SECTION IV).

Column 6 of the MAC contains alphabetic reference codes which are explained in Section IV of this appendix.

## SECTION II. MAINTENANCE ALLOCATION CHART

### MAINTENANCE ALLOCATION CHART

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

**NOTE**

The extent of maintenance to be performed by AVUM as indicated in this MAC is governed by the size of the Unit and the Tools authorized (Refer to paragraph B-1 b(1) a. and b.). Specific notes are given to further identify or describe the extent or limit of maintenance to be performed.

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY AVUM | AVIM | DEPOT | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| 0100 | Aircraft General | | | | | | |
| 0101 | Clean | | —•— | | | | |
| 0102 | Moor | | —•— | | | | |
| 0103 | Tow | | —•— | | | 100 | |
| 0104 | Jack | | —•— | | | 100,102 | |
| 0105 | Hoist | | —•— | | | | |
| 0106 | Preservation | | —•— | | | 100,102 | |
| 0107 | Weight & Balance | | | —•— | | 102,118<br>121 | |
| 0108 | Spot Paint | | —•— | | | 100 | |
| 0109 | Complete Painting | | | | —•— | | |
| 0110 | Sub-Assembly Painting | | | —•— | | 118 | |
| 0110 | Servicing | | —•— | | | 100,102 | |
| 0200 | Airframe | Inspect | —•— | | | | |
| | | Repair | —•— | | | 100,102<br>103 | A |
| | | | | —•— | | 117,120, 118 | |
| | | Overhaul | | | —•— | | |

## MAINTENANCE ALLOCATION CHART
(AVSCOM Reg 310-10)

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY AVUM | AVIM | DEPOT | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| 0201 | Tail Boom Assy | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100, 102 | B |
| | | Repair | — • — | | | 100, 102<br>103 | A |
| | | | | — • — | | 102, 117 | |
| | | Overhaul | | | — • — | | |
| 0202 | Fuselage | Inspect | — • — | | | | |
| | | Repair | — • — | | | 100, 102<br>103 | A |
| | | | | — • — | | 102, 117 | |
| 0202<br>01 | Sheet Metal for Structural Members and Honeycomb Panels not requiring Jigs and Fixtures | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100, 102<br>103 | A |
| | | Repair | — • — | | | 100, 102<br>103 | A |
| | | | | — • — | | 102, 117 | |
| 0202<br>02 | Sheet Metal for Structural Members and Honeycomb Panels that require Jigs & Fixtures | Inspect | — • — | | | | |
| | | Replace | | | — • — | | |
| | | Repair | — • — | — • — | — • — | | |
| 0202<br>03 | Honeycomb Panels | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100, 102 | |
| | | Repair | — • — | | | 100, 102<br>103 | A |
| | | | | — • — | | 102, 117 | |

## MAINTENANCE ALLOCATION CHART

(AVSCOM Reg 310-10)

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY | | | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 0202<br>04 | Cabin Nose Assembly | | | | | | |
| 0202<br>04<br>01 | Lower Windows | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100, 102 | |
| | | Repair | — • — | | | 100, 102 | D |
| 0202<br>04<br>02 | Windshield | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100, 102 | |
| | | Repair | — • — | | | 100, 102 | D |
| 0202<br>04<br>03 | Ejection Handles | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100, 102 | |
| | | Repair | — • — | | | 100, 102 | |
| 0202<br>05 | Doors, Crew | Inspect | — • — | | | | |
| | | Adjust | — • — | | | 100, 102 | |
| | | Replace | — • — | | | 100, 102 | |
| | | Repair | — • — | | | 100, 102<br>103 | |

## MAINTENANCE ALLOCATION CHART
(AVSCOM Reg 310-10)

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY | | | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 0202<br>05<br>01 | Window Assembly | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100, 102 | |
| | | Repair | — • — | | | 100, 102 | D |
| 0202<br>05<br>02 | Striker Assembly | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100, 102 | |
| | | Repair | — • — | | | 100, 102<br>103 | |
| 0202<br>05<br>03 | Handle Assembly | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100, 102 | |
| | | Repair | — • — | | | 100, 102<br>103 | |
| 0202<br>06 | Cabin Roof Assembly | | | | | | |
| 0202<br>06<br>01 | Windows | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100, 102 | |
| | | Repair | — • — | | | 100, 102 | D |
| 0202<br>06<br>02 | Air Vent Pans | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100, 102 | |
| | | Repair | — • — | | | 100, 102 | |

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## MAINTENANCE ALLOCATION CHART
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NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY | | | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 0202<br>07 | Panel Assembly, Hinged | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100, 102 | |
| | | Repair | — • — | | | 100, 102<br>103, | A |
| | | | | — • — | | 102, 117 | |
| 0202<br>07<br>01 | Window Assembly | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100, 102 | |
| | | Repair | — • — | | | 100, 102 | D |
| 0202<br>07<br>02 | Latches | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100, 102 | |
| | | Repair | — • — | | | 100, 102<br>103 | |
| 0202<br>08 | Seat Installation Pilots & Co-pilots | Inspect | — • — | | | | |
| | | Repair | — • — | | | 100, 102 | |
| 0202<br>08<br>01 | Seat Belts and Shoulder Harness | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100, 102 | |
| 0202<br>08<br>02 | Shoulder Harness Reel | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100, 102 | |
| | | Repair | — • — | | | 100, 102 | |
| 0202<br>08<br>03 | Seat Assembly | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100, 102 | |
| | | Repair | — • — | | | 100, 102<br>103 | |

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## MAINTENANCE ALLOCATION CHART

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NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY | | | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 0202<br>08<br>03<br>01 | Armor | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100, 102 | |
| | | Repair | — • — | | | 100 , 102, 103 | |
| 0202<br>08<br>03<br>02 | Carriage Assy | Inspect | — • — | | | 100 ,102 | |
| | | Replace | — • — | | | 100 , 102, 103 | |
| | | Repair | — • — | — • — | | 102, 117 120 | A |
| 0202<br>09 | Seat Installation, Passenger | Inspect | — • — | | | | |
| | | Repair | — • — | | | 100, 102 | |
| 0202<br>09<br>01 | Seat | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100 ,102 | |
| | | Repair | — • — | | | 100 ,102 | AG |
| 0202<br>09<br>02 | Seat Belts | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100 ,102 | |

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NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY AVUM | AVIM | DEPOT | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| 0202<br>10 | SEAT, CREW | Inspect | —•— | | | | EH-1H Only |
| | | Service | —•— | | | 100, 102 | |
| | | Adjust | —•— | | | 100, 102 | |
| | | Replace | —•— | | | 100, 102 | |
| | | Repair | —•— | | | 100, 102 | A |
| | | | | —•— | | 102,117<br>120 | |
| 0202<br>11 | Blanket Assembly, Soundproofing | Inspect | —•— | | | | |
| | | Replace | —•— | | | 100,102 | |
| | | Repair | —•— | | | 100,102 | |
| | | | | —•— | | 102,117 | |

## MAINTENANCE ALLOCATION CHART
(AVSCOM Reg 310-10)

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY | | | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 0202<br>12<br>01 | Window | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100 ,102 | |
| | | Repair | — • — | | | 100,102 | D |
| 0202<br>12<br>02 | Latch | Inspect | — • — | | | | |
| | | Repair | — • — | | | 100 ,102 | |
| 0202<br>13 | Door Assembly, Equipment | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100 ,102 | |
| | | Repair | — • — | | | 100, 102<br>103 | |
| 0202<br>14 | Inspection Doors | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100 ,102 | |
| | | Repair | — • — | | | 100, 102<br>103 | |
| 0202<br>15 | Deck Assembly, Left and Right Engine | Inspect | — • — | | | | |
| | | Align | | — • — | | | |
| | | Replace | | — • — | | 100 ,102 | |
| | | Repair | — • — | | | 100, 102<br>103 | A |
| | | | | — • — | | 102, 117 | |

## MAINTENANCE ALLOCATION CHART
(AVSCOM Reg 310-10)

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY | | | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 0202<br>16 | Deck Assembly, Center Engine | Inspect | —•— | | | | |
| | | Align | | —•— | | 100,T89<br>T90,102 | E |
| | | Replace | | —•— | | 100,102<br>103,T89 T90 | E |
| | | Repair | —•— | | | 100,102<br>103 | A |
| | | | | —•— | | 102,117 | |
| 0202<br>17 | Mount Assembly | Inspect | —•— | | | | |
| | | Align | —•— | | | 100,102 | |
| | | Replace | —•— | | | 102,100 | |
| | | Repair | —•— | | | 102,100<br>103 | A |
| | | | | —•— | | 102,117<br>120 | AH |
| 0202<br>18 | Cowl Assemblies | Inspect | —•— | | | | |
| | | Replace | —•— | | | 102,100 | |
| | | Repair | —•— | | | 102,103<br>100 | |
| | | | | —•— | | 102,117 | |
| 0202<br>19 | Baffle Assembly | Inspect | —•— | | | | |
| | | Replace | —•— | | | 103,100<br>102 | |
| | | Repair | —•— | | | 103,100<br>102 | |
| | | | | —•— | | 102,117 | |

## MAINTENANCE ALLOCATION CHART
(AVSCOM Reg 310-10)

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY | | | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 0202<br>20 | Firewall Assembly | Inspect | —•— | | | | |
| | | Replace | —•— | | | 103,100<br>102 | |
| | | Repair | —•— | | | 103, 100<br>102 | |
| | | | | —•— | | 102, 117 | |
| 0202<br>21 | Heatshield Assy | Inspect | —•— | | | | |
| | | Replace | —•— | | | 103, 100<br>102 | |
| | | Repair | —•— | | | 103, 100<br>102 | |
| | | | | —•— | | 102, 117 | |
| 0202<br>22 | Mount Installation, Engine | | | | | | |
| 0202<br>22<br>01 | Support Arms (Brace Rods, Tripod, and (Bi-Pod) | Inspect | —•— | | | | |
| | | Replace | —•— | | | 102,T10<br>100 | |
| | | Repair | —•— | | | 102, 100 | F |
| | | | | —•— | | 102, 120 | AH |
| 0202<br>22<br>02 | Pillow Block Assy | Inspect | —•— | | | | |
| | | Replace | —•— | | | 102,T10<br>100 | |
| | | Repair | —•— | | | 102, 100 | |
| 0202<br>23 | Map and Data Case | Inspect | —•— | | | | |
| | | Replace | —•— | | | 102,100 | |
| | | Repair | —•— | | | 100, 102 | AG |

## MAINTENANCE ALLOCATION CHART

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NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY | | | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 0300 | Alighting Gear Assembly | | | | | | |
| 0301 | Cross Tubes | Inspect | —•— | | | 100, 102 | |
| | | Replace | —•— | | | 102, 100 | |
| | | Repair | —•— | | | 103, 100<br>102 | A |
| 0302 | Skid Tubes | Inspect | —•— | | | | |
| | | Replace | —•— | | | 102, 100 | |
| | | Repair | —•— | | | 100, 102<br>103 | A |
| 0303 | Skid Shoes | Inspect | —•— | | | | |
| | | Replace | —•— | | | 102, 100 | |
| | | Repair | —•— | | | 100, 102<br>103 | A |
| | | | | —•— | | 102, 117<br>120 | AH |
| 0304 | Skid Saddles | Inspect | —•— | | | | |
| | | Replace | —•— | | | 100, 102 | |
| 0305 | Truck (Ground Handling Wheels) | Inspect | —•— | | | | |
| | | Replace | —•— | | | 100, 102 | |
| | | Repair | —•— | | | 100, 102<br>103 | |

## MAINTENANCE ALLOCATION CHART

(AVSCOM Reg 310-10)

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY | | | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 0305 01 | Pump Assembly | Inspect | —•— | | | | |
| | | Test | —•— | | | | |
| | | Replace | —•— | | | 102, 100 | |
| | | Repair | | —•— | | 111, 102 | |
| 0305 02 | Cylinder Assembly | Inspect | —•— | | | | |
| | | Replace | —•— | | | 102, 100 | |
| | | Repair | | —•— | | 111, 102 | |
| 0305 03 | Wheel Assembly | Inspect | —•— | | | | |
| | | Replace | —•— | | | 102, 100 | |
| | | Repair | —•— | | | 100, 102 | |
| 0306 | Skid Installation, Tail | Inspect | —•— | | | | |
| | | Replace | —•— | | | 102, 100 | |
| | | Repair | —•— | | | 102, 100 103 | |
| 0307 | Ski Isolation Damper | Inspect | —•— | | | | |
| | | Install | —•— | | | 100,102 | |
| | | Replace | —•— | | | 100, 102 | |
| | | Repair | —•— | | | 100, 102 | |

## MAINTENANCE ALLOCATION CHART

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY | | | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 0400 | Power Plant Installation | | | | | | |
| 0401 | Engine (Complete Assy) | Inspect | — • — | | | | |
| | | Test | — • — | | | 100, 102<br>108 | H |
| | | | | — • — | | 102, 119 | |
| | | Service | — • — | | | | |
| | | Replace | — • — | | | 10, 53<br>100,102<br>108 | |
| | | Repair | — • — | | | 100,102<br>108 | G |
| | | | | — • — | | 102, 112<br>119 | |
| | | Overhaul | | | — • — | | |
| 0402 | Particle Separator | Inspect | — • — | | | | |
| | | Replace | — • — | | | 102, 100 | |
| | | Repair | — • — | | | 100,103<br>102 | A |
| | | | | — • — | | 102, 117<br>120 | AH |
| 0403 | Tail Pipe | Inspect | — • — | | | | |
| | | Replace | — • — | | | 102, 100, | |
| | | Repair | — • — | | | 100, 102 | A |
| | | | | — • — | | 102, 120 | AH |

## MAINTENANCE ALLOCATION CHART

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY |  |  | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
|  |  |  | AVUM | AVIM | DEPOT |  |  |
| 0404 | Heat Suppressor | Inspect | —•— |  |  |  |  |
|  |  | Replace | —•— |  |  | 102, 100 |  |
|  |  | Repair | —•— |  |  | 100, 103<br>102 | A |
|  |  |  |  | —•— |  | 102, 117 |  |
| 0405 | Actuator, Linear | Inspect | —•— |  |  |  |  |
|  |  | Adjust | —•— |  |  | 102, 100 |  |
|  |  | Replace | —•— |  |  | 100, 102 |  |
|  |  | Repair | —•— |  |  | 102, 100 |  |
|  |  | Repair |  | —•— |  |  | AN |
| 0406 | Controls, Power Lever | Inspect | —•— |  |  |  |  |
|  |  | Adjust | —•— |  |  | 102, 100 |  |
|  |  | Replace | —•— |  |  | 102, 100 |  |
|  |  | Repair | —•— |  |  | 102, 100 |  |
| 0407 | Droop Compensator | Inspect | —•— |  |  |  |  |
|  |  | Adjust | —•— |  |  | 102, 100 |  |
|  |  | Replace | —•— |  |  | 102, 100 |  |
|  |  | Repair | —•— |  |  | 102, 100 |  |
| 0408 | Oil Tank, Engine | Inspect | —•— |  |  |  |  |
|  |  | Test | —•— |  |  | 102, 100 |  |
|  |  | Service | —•— |  |  | 102, 100 |  |
|  |  | Replace | —•— |  |  | 102,100 |  |
|  |  | Repair | —•— |  |  | 102,100 |  |
|  |  |  |  | —•— |  | 102, 120 | AH |

## MAINTENANCE ALLOCATION CHART
(AVSCOM Reg 310-10)

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY |  |  | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
|  |  |  | AVUM | AVIM | DEPOT |  |  |
| 0409 | Hoses, Fittings, and Tubing | Inspect | — • — |  |  |  |  |
|  |  | Replace | — • — |  |  | 102,100 |  |
| 0410 | Oil Cooler, Engine | Inspect | — • — |  |  |  |  |
|  |  | Test |  | — • — |  |  |  |
|  |  | Replace | — • — |  |  | 102, 100 |  |
|  |  | Repair | — • — |  |  | 102, 100 | M |
| 0411 | Blower, Turbine | Inspect | — • — |  |  |  |  |
|  |  | Replace | — • — |  |  | 102, 100 |  |
|  |  | Repair |  | — • — |  | 119, 102<br>112, 118<br>120 | AH |
| 0412 | Chip Detector, Engine | Inspect | — • — |  |  |  |  |
|  |  | Test | — • — |  |  | 102, 100 |  |
|  |  | Replace | — • — |  |  | 102, 100 |  |
| 0413 | Filter Assembly, Inlet | Inspect | — • — |  |  |  |  |
|  |  | Replace | — • — |  |  | 102, 100 |  |
|  |  | Repair | — • — |  |  | 102, 100 |  |
| 0414 | Valves, Breakaway | Inspect | — • — |  |  |  |  |
|  |  | Replace | — • — |  |  | 100, 102 |  |

## MAINTENANCE ALLOCATION CHART

(AVSCOM Reg 310-10)

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY | | | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 0500 | Rotor Systems | | | | | | |
| 0501 | Pylon Assembly, External Components | Inspect | —•— | | | | |
| | | Replace | —•— | | | 102,100 | |
| | | Repair | —•— | | | 100,102<br>103 | A |
| 0502 | Stabilizer Bar Assy | Inspect | —•— | | | | |
| | | Adjust | | —•— | | 102,113<br>T99A | K |
| | | Replace | —•— | | | 102,100 | |
| | | Repair | —•— | | | 102,100 | D |
| | | | | —•— | | 102,116 | |
| 0503 | Hub and Blade Assy, Main Rotor | Inspect | —•— | | | | |
| | | Adjust | —•— | | | 101,102 | L |
| | | Align | —•— | | | T34,T39<br>T40,T41<br>T49,T62<br>101,102 | |
| | | Replace | —•— | | | T11,T12<br>T13,T22<br>T34,T41<br>T49,T53<br>102,101 | |

## MAINTENANCE ALLOCATION CHART

(AVSCOM Reg 310-10)

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY AVUM | AVIM | DEPOT | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| 0503<br>01 | Hub Assembly | Inspect | —•— | | | | |
| | | Service | —•— | | | | |
| | | Adjust | | —•— | | T34, T41,<br>T49, T59,<br>T62, 102,<br>116 | |
| | | Align | —•— | | | 102, 109<br>101 | K |
| | | Replace | —•— | | | 102, 109<br>101 | |
| | | Repair | —•— | | | 100, 102 | M |
| | | | | —•— | | T34, T41,<br>T49, T72<br>109, 102 | |
| | | Overhaul | | | —•— | | |
| 0503<br>01<br>01 | Drag Brace Assy | Inspect | —•— | | | | |
| | | Replace | —•— | | | 102, 109,<br>101 | |
| | | Repair | —•— | | | 102, 109,<br>101 | |
| 0503<br>01<br>02 | Grip Assembly | Inspect | —•— | | | | |
| | | Replace | | | —•— | | |
| | | Repair | —•— | | | 109, 100<br>102 | M |
| | | | | —•— | | 102, 113 | D |

## MAINTENANCE ALLOCATION CHART

(AVSCOM Reg 310-10)

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY AVUM | AVIM | DEPOT | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| 0503<br>01<br>03 | Shield Assembly | Inspect | | —●— | | | |
| | | Replace | | —●— | | 113, 114<br>102 | |
| | | Repair | | —●— | | 113, 114<br>102 | |
| 0503<br>01<br>04 | Oil Reservoirs & Sight Glasses | Inspect | —●— | | | | |
| | | Replace | —●— | | | 102,109<br>100 | |
| 0503<br>01<br>05 | Strap Assembly, Tension | Inspect | | —●— | | | |
| | | Replace | | —●— | | 113, 114<br>102 | |
| 0503<br>01<br>06 | Pitch Horn Assy | Inspect | —●— | | | | |
| | | Replace | —●— | | | 102,109<br>100 | |
| | | Repair | —●— | | | 102,109<br>100 | |
| 0503<br>01<br>07 | Trunnion Assembly | Inspect | —●— | | | | M |
| | | Replace | | | —●— | | |
| | | Repair | —●— | | | 109, 100<br>102 | M |
| | | | | —●— | | 102, 114,<br>113 | |
| | | | | | —●— | | |

## MAINTENANCE ALLOCATION CHART
(AVSCOM Reg 310-10)

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY – TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINT FUNCTION | (4) MAINTENANCE CATEGORY |  |  | (5) TOOLS AND EQPT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
|  |  |  | AVUM | AVIM | DEPOT |  |  |
| 0503<br>01<br>08 | Bolt Assy, Blade Retention | Inspect | —•— |  |  |  |  |
|  |  | Replace | —•— |  |  | 102,109<br>100 |  |
|  |  | Repair | —•— |  |  | 102,109<br>100 |  |
| 0503<br>01<br>09 | Pillow Block Assy | Inspect | —•— |  |  |  |  |
|  |  | Service | —•— |  |  | 100,102 |  |
|  |  | Replace |  |  | —•— | 113,114<br>102 |  |
|  |  | Repair | —•— | —•— |  | 109,<br>100,102 | M |
| 0503<br>01<br>10 | Yoke Assembly | Inspect | —•— |  |  |  |  |
|  |  | Replace |  |  | —•— |  |  |
|  |  | Repair | —•— |  |  | 109,100,102 | M |
|  |  |  |  | —•— |  | 102,113,114 | M |
| 0503<br>01(11) | Plate Assy | Inspect | —•— | —•— |  |  |  |
|  |  | Replace |  | —•— |  | 102, 109 |  |
| 0503<br>02 | Blade Assy, Main Rotor | Inspect | —•— |  |  |  |  |
|  |  | Replace | —•— |  |  | T34,T45<br>T49,T85<br>109, 101<br>102 |  |
|  |  | Repair | —•— |  |  | T34,T45<br>T49,T85<br>109, 101<br>102 |  |
|  |  | Overhaul |  |  | —•— |  |  |

## MAINTENANCE ALLOCATION CHART
(AVSCOM Reg 310-10)

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY – TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY AVUM | AVIM | DEPOT | (5) TOOLS AND EQPT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| 0601<br>01 | Spring | Inspect | –•– | –•– | | | M |
| | | Replace | | –•– | | 102,109 | |
| 0601<br>01<br>03 | Support Assy | Inspect | –•– | –•– | | | M |
| | | Replace | | –•– | | 102,109 | |

## MAINTENANCE ALLOCATION CHART

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY | | | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 0504 | Scissors and Sleeve Assembly | Inspect | — • — | | | | |
| | | Replace | — • — | | | 109, 101<br>101, T99A | |
| | | Repair | — • — | | | 109,102<br>100 | |
| | | | | — • — | | T36,T37<br>T38,T50<br>T58,102<br>109,113<br>114 | |
| 0504 01 | Link Assy, Scissors | Inspect | — • — | | | | |
| | | Replace | — • — | | | 109,100<br>102 | |
| | | Repair | — • — | | | 109,100<br>102 | |
| 0504 02 | Scissors Assembly | Inspect | — • — | | | | |
| | | Replace | — • — | | | 109,100<br>102 | |
| | | Repair | — • — | | | 109,100<br>102<br>T99A | |
| 0504 03 | Hub Assembly | Inspect | — • — | | | | |
| | | Replace | | — • — | | 102,113<br>114 | |
| | | Repair | — • — | | | 109,100<br>102 | D |
| | | | | — • — | | 102<br>113,114 | |

## MAINTENANCE ALLOCATION CHART

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY | | | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 0504 04 | Sleeve, Collective | Inspect | — • — | | | | |
| | | Replace | | — • — | | | |
| | | Repair | — • — | | | 100 , 109<br>102 | D |
| | | Repair | | — • — | | | |
| 0505 | Swashplate and Support Assy | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100, 102<br>109 | |
| | | Repair | — • — | | | 100, 102<br>109 | M |
| | | Overhaul | | | — • — | | |
| 0506 | Damper Assembly, Stabilizer | Inspect | — • — | | | | |
| | | Service | — • — | | | 100, 102<br>109 | |
| | | Adjust | — • — | | | 100, 102<br>109 | |
| | | Replace | — • — | | | 100, 102<br>109 | |
| | | Repair | — • — | | | 100, 102<br>109 | M |
| 0507 | Rotor Installation, Tail | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100, 102<br>109 | |
| | | Repair | — • — | | | 100, 102<br>109 | |

## MAINTENANCE ALLOCATION CHART

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY | | | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 0507<br>01 | Link Assembly | Inspect | —•— | | | | |
| | | Replace | —•— | | | 100, 102, 109 | |
| | | Repair | —•— | | | 100, 102, 109 | |
| 0507<br>02 | Crosshead | Inspect | —•— | | | | |
| | | Replace | —•— | | | 100, 102, 109 | |
| | | Repair | —•— | | | 100, 102, 109 | |
| 0507<br>03 | Hub and Blade Assembly | Inspect | —•— | | | | |
| | | Adjust | —•— | | | 100, 102, 109 | L |
| | | Align | —•— | | | T1, T73, T75, T78, T85, 102 100, 109 | K |
| | | Replace | —•— | | | 102, 109, 100 | M |
| | | Repair | —•— | | | 109, 100 | M |
| | | | | —•— | | 102, 113, 114 | |
| 0507<br>03<br>(01) | Blade Assembly | Inspect | —•— | | | | |
| | | Replace | —•— | | | 100, 102 | |
| | | Repair | —•— | | | 100, 102 | D |
| | | | | —•— | | 102, 113 114 | |

## MAINTENANCE ALLOCATION CHART
(AVSCOM Reg 310-10)

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY | | | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 0507<br>03<br>02 | Hub Assembly | Inspect | —•— | | | | |
| | | Service | —•— | | | 100, 102, 109 | |
| | | Adjust | —•— | | | T44, 100, 102, 109 | |
| | | Replace | —•— | | | 102, 109, 100 | |
| | | Repair | —•— | | | 102, 109, 100 | M |
| | | | | —•— | | T43, T44, 102, 113, 114 | |
| 0600 | Drive Train | | | | | | |
| 0601 | Transmission and Mast Assembly | Inspect | —•— | | | | |
| | | Replace | —•— | | | T19, T21, T53, 102, 101, 109 | |
| | | Repair | —•— | | | 100, 102, 109, | M |
| | | | | —•— | | 102, 113 | |
| 0601<br>01 | Mast Assembly | Inspect | —•— | | | | |
| | | Replace | —•— | | | T53, 101 102, 109, | |
| | | Repair | —•— | | | 100, 102, 109 | M |
| | | | | —•— | | 102,113 | |
| | | Overhaul | | | —•— | | |

## MAINTENANCE ALLOCATION CHART
(AVSCOM Reg 310-10)

NOMENCLATURE OF END ITEMS
HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY AVUM | AVIM | DEPOT | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| 0601<br>02 | Transmission Assy. | Inspect | —•— | | | | |
| | | Test | —•— | | | 100, 102 | |
| | | Service | —•— | | | 100, 102 | |
| | | Replace | —•— | | | T19, T21<br>T53, 102,<br>101, 109 | |
| | | Repair | —•— | | | T19, T21<br>T53, 100<br>102, 109 | |
| | | Overhaul | | —•— | —•— | 102, 113 | |
| 0601<br>02<br>01 | Pressure Relief Valve | Inspect | —•— | | | | |
| | | Replace | —•— | | | 100,102<br>109 | |
| | | Repair | | —•— | | 102, 113 | |
| 0601<br>02<br>02 | Lines, Fittings, Manifolds, and Screens | Inspect | —•— | | | | |
| | | Replace | —•— | | | 100, 102<br>109 | |
| | | Repair | —•— | | | 100, 102<br>109 | |
| 0601<br>02<br>03 | Oil Jets | Inspect | —•— | | | | |
| | | Replace | —•— | | | 100, 102<br>109 | |

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## MAINTENANCE ALLOCATION CHART

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY | | | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 0601<br>02<br>04 | Filter Assembly (Primary) | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100, 102<br>109 | |
| | | Repair | — • — | | | 100, 102<br>109 | |
| 0601<br>02<br>05 | Input Drive Quill | Inspect | — • — | | | | |
| | | Replace | — • — | | | T31, T57<br>102, 101<br>109 | |
| | | Repair | | — • — | | T31, T57<br>102, 113 | |
| | | Overhaul | | | — • — | | |
| 0601<br>02<br>06 | Offset Quill | Inspect | — • — | | | | |
| | | Replace | — • — | | | 101, 102<br>109 | |
| | | Repair | | — • — | | T26, 102<br>113 | |
| | | Overhaul | | | — • — | | |
| 0601<br>02<br>07 | Hydraulic Pump and Tachometer Drive Quill | Inspect | — • — | | | | |
| | | Replace | — • — | | | T31, 101<br>102, 109 | |
| | | Repair | | — • — | | T31, 102<br>113 | |
| | | Overhaul | | | — • — | | |

## MAINTENANCE ALLOCATION CHART

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY | | | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 0601<br>02<br>08 | Tail Rotor Quill | Inspect | — • — | | | | |
| | | Replace | — • — | | | T31, T60, 102, 101, 109 | |
| | | Repair | | — • — | | T31, T60, 102, 113 | |
| | | Overhaul | | | — • — | | |
| 0601<br>02<br>09 | Sight Gages | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100, 102, 109 | |
| 0601<br>02<br>10 | Chip Detector | Inspect | — • — | | | | |
| | | Test | — • — | | | 100,102 109 | |
| | | Replace | — • — | | | 100, 102, 109 | |
| 0601<br>02<br>11 | Oil Pump Assembly | Inspect | — • — | | | | |
| | | Test | | — • — | | 102, 113 | |
| | | Replace | — • — | | | 102, 101, 109 | |
| | | Repair | | — • — | | 102, 113 | |
| | | Overhaul | | | — • — | | |

## MAINTENANCE ALLOCATION CHART
(AVSCOM Reg 310-10)

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY | | | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 0602 | Main Drive Shaft (Engine to Transmission Bell) | Inspect | — • — | | | | |
| | | Service | — • — | | | T29, T48, 100, 102, 109 | |
| | | Align | — • — | | | T47, T51, T53, 100, 102, 109 | |
| | | Replace | — • — | | | T29, T48, 100, 102, 109 | |
| | | Repair | — • — | | | T29, T48, 100, 102, 109 | |
| | | Overhaul | | | — • — | | |
| 0603 | Main Drive Shaft (Engine to Transmission Kaflex) | Inspect | — • — | | | | |
| | | Align | — • — | | | T47, T51, T53, 100, 102, 109 | |
| | | Replace | — • — | | | 100, 102, 109 | |
| | | Repair | — • — | | | 100, 102, 109 | |
| | | Overhaul | | | — • — | | |
| 0604 | Oil Cooler | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100, 102, 109 | |

## MAINTENANCE ALLOCATION CHART
(AVSCOM Reg 310-10)

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY AVUM | AVIM | DEPOT | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| 0605 | External Oil Filter | Inspect | —•— | | | | |
| | | Replace | —•— | | | 100, 102, 109 | |
| 0606 | Manifold Assembly | Inspect | —•— | | | | |
| | | Replace | —•— | | | 100, 102, 109 | |
| | | Repair | —•— | | | 100, 102, 109 | |
| 0607 | Tail Rotor Drive Shaft | Inspect | —•— | | | | |
| | | Align | | —•— | | 102,113 | |
| | | Replace | —•— | | | 100, 102 109 | |
| | | Repair | —•— | | | 100, 102 109 | |
| | | | | | —•— | | |
| 0607 01 | Tail Rotor Drive Shaft Hanger Assy. | Inspect | —•— | | | | |
| | | Service | —•— | | | | |
| | | Replace | —•— | | | 100, 102 109 | |
| | | Repair | —•— | | | 100, 102, 109, | |
| | | Repair | | —•— | | 102, 113, 118 | AN |

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## MAINTENANCE ALLOCATION CHART

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY | | | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 0607<br>02 | Tail Rotor 42° and 90° Gearbox | Inspect | —•— | | | | |
| | | Service | —•— | | | | |
| | | Replace | —•— | | | T33,T54<br>100,102<br>109 | |
| | | Repair | —•— | | | T2,T30<br>T34,T54<br>T55,T60<br>100,102<br>109 | M |
| | | | | —•— | | 102,113 | |
| | | Overhaul | | | —•— | | |
| 0607<br>02<br>(01) | Tail Rotor 42° and 90° Gearbox Quills | Inspect | —•— | | | T-72.1 | |
| | | Replace | —•— | | | 101,102<br>109 | AK |
| | | Repair | | —•— | | 102,113 | J |
| | | Overhaul | | | —•— | | |
| 0700 | Hydraulic and Pneumatic Systems | Inspect | —•— | | | | |
| | | Test | —•— | | | T88,100<br>104 | |
| | | | | —•— | | 111 | |
| 0701 | Cylinder Assy, Main Servo | Inspect | —•— | | | | |
| | | Adjust | —•— | | | 100,102<br>104 | |
| | | Replace | —•— | | | 104,100<br>102 | |
| | | Repair | —•— | | | 104,100<br>102 | |
| | | Repair | | —•— | | 102,111 | AN |

## MAINTENANCE ALLOCATION CHART

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY | | | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 0701<br>01 | Connecting Link, Clevis Fittings, Plugs | Inspect | —•— | | | | |
| | | Replace | —•— | | | 104,100<br>102 | |
| 0701<br>02 | Servocylinder Assy | Inspect | —•— | | | | |
| | | Adjust | —•— | | | 100,102 | |
| | | Replace | —•— | | | 104,102<br>100 | |
| | | Repair | —•— | | | 104,100<br>102 | I |
| | | | | —•— | | 102,111 | J,AN |
| | | Overhaul | | | —•— | | |
| 0702 | Hoses, Tubing and Fittings | Inspect | —•— | | | | |
| | | Replace | —•— | | | 104,100<br>102 | |
| 0703 | Switch, Pressure | Inspect | —•— | | | | |
| | | Replace | —•— | | | 104,100<br>102 | |
| 0704 | Valve, Directional | Inspect | —•— | | | | |
| | | Replace | —•— | | | 104,100<br>102 | |
| 0705 | Filter Assembly | Inspect | —•— | | | | |
| | | Replace | —•— | | | 104,100<br>102 | |
| | | Repair | —•— | | | 104,100<br>102 | |

## MAINTENANCE ALLOCATION CHART

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY | | | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 0706 | Valve, Check | Inspect | — • — | | | | |
| | | Replace | — • — | | | 104, 100, 102 | |
| 0707 | Valve, Safety Relief | Inspect | — • — | | | | |
| | | Replace | — • — | | | 104, 100, 102 | |
| 0708 | Valve, Irreversible | Inspect | — • — | | | | |
| | | Replace | — • — | | | 104, 100, 102 | |
| | | Repair | — • — | | | 104, 100, 102 | D |
| | | Overhaul | | | — • — | | |
| 0709 | Tank, Hydraulic Fluid | Inspect | — • — | | | | |
| | | Service | — • — | | | 100, 102, 104 | |
| | | Replace | — • — | | | 104, 100, 102 | |
| | | Repair | — • — | | | 104, 100, 102 | AG |
| 0710 | Pump, Axial Piston | Inspect | — • — | | | | |
| | | Replace | — • — | | | 104, 100, 102 | |
| | | Repair | — • — | | | 104, 100, 102 | D |
| | | Overhaul | | | — • — | | |

## MAINTENANCE ALLOCATION CHART

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY AVUM | AVIM | DEPOT | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| 0711 | Coupling Halfs | Inspect | —•— | | | | |
| | | Replace | —•— | | | 104,100<br>102 | |
| 0712 | Servo Cylinder, T/R | Inspect | —•— | | | | |
| | | Replace | —•— | | | 104,100<br>102 | |
| | | Repair | —•— | | | 104,100<br>102 | D |
| | | | | —•— | | 102,111 | J,AN |
| 0800 | Instrument Systems | | | | | | |
| 0801 | Instrument Panel | Inspect | —•— | | | | |
| | | Replace | —•— | | | 100,102 | |
| | | Repair | —•— | | | 100,102 | |
| | | | | —•— | | 102,110 | |
| 0801<br>01 | Glareshield | Inspect | —•— | | | | |
| | | Replace | —•— | | | 100,102 | |
| | | Repair | —•— | | | 100,102 | |

## MAINTENANCE ALLOCATION CHART

(AVSCOM Reg 310-10)

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY AVUM | AVIM | DEPOT | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| 0802 | Miscellaneous Instruments | | | | | | |
| 0802 01 | Clock | Inspect | — • — | | | | |
| | | Adjust | — • — | | | 100, 102, 106 | |
| | | Replace | — • — | | | 100, 102, 106 | |
| | | Overhaul | | | — • — | | |
| 0802 02 | Free Air Temperature Gage | Inspect | — • — | | | | |
| | | Test | — • — | | | 100, 102, 106 | |
| | | Replace | — • — | | | 100, 102, 106 | |
| 0802 03 | Volt, Load and Amp Meter | Inspect | — • — | | | | |
| | | Adjust | — • — | | | 100, 102, 106 | |
| | | Replace | — • — | | | 100, 102, 106 | |

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## MAINTENANCE ALLOCATION CHART
(AVSCOM Reg 310-10)

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY | | | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 0802<br>04 | Fuel Quantity Indicating System | | | | | | |
| 0802<br>04<br>01 | Fuel Quantity Indicator and Amplifier | Inspect | — • — | | | | |
| | | Test | | — • — | | 101,102<br>106 | AL |
| | | Adjust | | — • — | | 102,110 | |
| | | Replace | — • — | | | 100,102<br>106 | |
| | | Overhaul | | | — • — | 100,102<br>106 | |
| 0802<br>04<br>02 | Fuel Quantity Transmitter | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100,102<br>106 | |
| | | Repair | — • — | | | 100,102,<br>106 | |
| | | Overhaul | | | — • — | | |
| 0802<br>04<br>03 | Tank Sensors, Probes & Units | Inspect | | — • — | | 102,110 | |
| | | Test | | — • — | | 110,102 | |
| | | Replace | | — • — | | 110,102 | |

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## MAINTENANCE ALLOCATION CHART

(AVSCOM Reg 310-10)

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY | | | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 0803 | Flight Instrument | | | | | | |
| 0803 01 | Vertical Velocity Indicator | Inspect | — • — | | | | |
| | | Test | — • — | | | 100, 102, 106 | |
| | | Replace | — • — | | | 100, 102, 106 | |
| | | Repair | — • — | | | 100, 102, 106 | |
| | | Overhaul | | | — • — | | |
| 0803 02 | Stand-By Compass | Inspect | — • — | | | | |
| | | Adjust | — • — | | | 100, 102, 106 | |
| | | Replace | — • — | | | 100, 102, 106 | |
| 0803 03 | Airspeed Indicator | Inspect | — • — | | | | |
| | | Test | — • — | | | 100, 102, 106 | |
| | | Replace | — • — | | | 100, 102, 106 | |
| | | Repair | — • — | | | 100, 102, 106 | |
| | | Overhaul | | | — • — | | |

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## MAINTENANCE ALLOCATION CHART

(AVSCOM Reg 310-10)

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY |  |  | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
|  |  |  | AVUM | AVIM | DEPOT |  |  |
| 0803<br>04 | Altimeter Indicator | Inspect | —●— |  |  |  |  |
|  |  | Test | —●— |  |  | 100, 102, 106 |  |
|  |  | Replace | —●— |  |  | 100, 102, 106 |  |
|  |  | Overhaul |  |  | —●— |  |  |
| 0803<br>05 | Attitude Indicator | Inspect | —●— |  |  |  |  |
|  |  | Test | —●— |  |  | 100, 102, 106 |  |
|  |  | Replace | —●— |  |  | 100, 102, 106 |  |
|  |  | Overhaul |  |  | —●— |  |  |
| 0803<br>06 | Turn & Slip Indicator | Inspect | —●— |  |  |  |  |
|  |  | Test | —●— |  |  | 100, 102, 106 |  |
|  |  | Replace | —●— |  |  | 100, 102, 106 |  |
|  |  | Overhaul |  |  | —●— |  |  |

## MAINTENANCE ALLOCATION CHART
(AVSCOM Reg 310-10)

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY | | | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 0803 07 | Pitot System | Inspect | — • — | | | | |
| | | Test | — • — | | | 100, 102, 106 | |
| | | Calibrate | | — • — | | 102, 110, 118 | |
| | | Replace | — • — | | | 100, 102, 106 | |
| | | Repair | — • — | | | 100, 102, 106 | |
| 0804 | Engine Instruments | | | | | | |
| 0804 01 | Dual Tachometer | Inspect | — • — | | | | |
| | | Test | — • — | | | 100, 102, 106 | |
| | | Replace | — • — | | | 100, 102, 106 | |
| | | Overhaul | | | — • — | | |
| 0804 02 | Exhaust Gas Temperature Indicator | Inspect | — • — | | | | |
| | | Test | — • — | | | 100, 102, 106 | |
| | | Replace | — • — | | | 100, 102, 106 | |
| | | Repair | — • — | | | 100, 102, 106 | |
| | | Overhaul | | | — • — | | |

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## MAINTENANCE ALLOCATION CHART

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NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY | | | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 0804 02 01 | Thermocouple Lead Spool Resistor | Inspect | — • — | | | | |
| | | Test | — • — | | | 100, 102, 106 | |
| | | Adjust | — • — | | | 100, 102, 106 | |
| | | Replace | — • — | | | 100, 102, 106 | |
| | | Repair | — • — | | | 100, 102, 106 | |
| 0804 03 | Oil Temperature Indicator | Inspect | — • — | | | | |
| | | Test | — • — | | | 100, 102, 106 | |
| | | Replace | — • — | | | 100, 102, 106 | |
| | | Repair | — • — | | | 100, 102, 106 | |
| | | Overhaul | | | — • — | | |
| 0804 04 | Oil Pressure Indicator and Transmitter | Inspect | — • — | | | | |
| | | Test | — • — | | | 100, 102, 106 | |
| | | Replace | — • — | | | 100, 102, 106 | |
| | | Repair | — • — | | | 100, 102, 106 | |
| | | Overhaul | | | — • — | | |

## MAINTENANCE ALLOCATION CHART

(AVSCOM Reg 310-10)

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY AVUM | AVIM | DEPOT | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| 0804 05 | Fuel Pressure Indicator and Transmitter | Inspect | — • — | | | | |
| | | Test | — • — | | | 100, 102, 106 | |
| | | Replace | — • — | | | 100, 102, 106 | |
| | | Repair | — • — | | | 100, 102, 106 | |
| | | Overhaul | | | — • — | | |
| 0804 06 | Torquemeter and Transmitter | Inspect | — • — | | | | |
| | | Test | — • — | | | 100, 102, 106 | |
| | | Replace | — • — | | | 100, 102, 106 | |
| | | Repair | — • — | | | 100, 102, 106 | |
| | | Overhaul | | | — • — | | |
| 0804 07 | Tachometer Generators | Inspect | — • — | | | | |
| | | Test | — • — | | | 100, 102, 106 | |
| | | Replace | — • — | | | 100, 102, 106 | |
| | | Repair | — • — | | | 100, 102, 106 | |
| | | Overhaul | | | — • — | | |

## MAINTENANCE ALLOCATION CHART
(AVSCOM Reg 310-10)

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY AVUM | AVIM | DEPOT | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| 0804 08 | Gas Producer Tachometer | Inspect | — • — | | | | |
| | | Test | — • — | | | 100, 102, 106 | |
| | | Replace | — • — | | | 100, 102, 106 | |
| | | Repair | — • — | | | 100, 102, 106 | |
| | | Overhaul | | | — • — | | |
| 0804 09 | Temperature Bulbs | Inspect | — • — | | | | |
| | | Test | — • — | | | 100, 102, 106 | |
| | | Replace | — • — | | | 100, 102, 106 | |
| | | Repair | — • — | | | 100, 102, 106 | |
| 0805 | Transmission Instruments | | | | | | |
| 0805 01 | Oil Temperature Indicator | Inspect | — • — | | | | |
| | | Test | — • — | | | 100, 102, 106 | |
| | | Replace | — • — | | | 100, 102, 106 | |
| | | Repair | — • — | | | 100, 102, 106 | |
| | | Overhaul | | | — • — | | |

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## MAINTENANCE ALLOCATION CHART

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY AVUM | AVIM | DEPOT | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| 0805 02 | Oil Pressure Indicator and Transmitter | Inspect | — • — | | | | |
| | | Test | — • — | | | 100, 102, 106 | |
| | | Replace | — • — | | | 100, 102, 106 | |
| | | Repair | — • — | | | 100, 102, 106 | |
| | | Overhaul | | | — • — | | |
| 0900 | Electrical System | | | | | | |
| 0901 | Wiring | Inspect | — • — | | | | |
| | | Test | — • — | | | 100, 102, 107 | |
| | | Replace | — • — | | | 100, 102, 107 | |
| | | Repair | — • — | | | 100, 102, 107 | |
| 0902 | Relays, Rheostats, Switches, Circuit Breakers, Plugs, Leads, Connectors, Conduits, Receptacles, Shunts & Shock Mounts | Inspect | — • — | | | | |
| | | Test | — • — | | | 100, 102, 107 | |
| | | Replace | — • — | | | 100, 102, 107 | |
| | | Repair | — • — | | | 100, 102, 107 | |

## MAINTENANCE ALLOCATION CHART

(AVSCOM Reg 310-10)

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY | | | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 0903 | Battery | Inspect | —•— | | | | |
| | | Test | —•— | | | 100, 102, 107 | O |
| | | Service | | —•— | | 102, 110 | O |
| | | Replace | —•— | | | 100, 102, 107 | |
| | | Repair | —•— | | | 100, 102, 107 | O |
| 0904 | Regulator | Inspect | —•— | | | | |
| | | Adjust | —•— | | | 100, 102, 107 | AG |
| | | Replace | —•— | | | 100, 102, 107 | |
| | | Overhaul | | | —•— | | |
| 0904.1 | Deleted | | | | | | |
| 0905 | Main Generator | Inspect | —•— | | | | |
| | | Test | | —•— | | 102, 110 T99.2 | P |
| | | Replace | —•— | | | 100, 102, 107 | |
| | | Repair | | —•— | | 102, 110 | P |

## MAINTENANCE ALLOCATION CHART

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY AVUM | AVIM | DEPOT | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| 0906 | Deleted | | | | | | |
| 0907 | Starter Generator | Inspect | —•— | | | | |
| | | Test | | —•— | | 102,110<br>T99.2 | P |
| | | Replace | —•— | | | 100,102<br>107 | |
| | | Repair | | —•— | | 102,110<br>T99.2 | P |

## MAINTENANCE ALLOCATION CHART

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY |  |  | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
|  |  |  | AVUM | AVIM | DEPOT |  |  |
| 0909 | Inverters | Inspect | —•— |  |  |  |  |
|  |  | Adjust | —•— |  |  | 100,102<br>107 |  |
|  |  | Replace | —•— |  |  | 100,102<br>107 |  |
|  |  | Repair |  | —•— |  | 102,110 | R |
| 0910 | A.C. Transformer | Inspect | —•— |  |  |  |  |
|  |  | Replace | —•— |  |  | 100,102<br>107 |  |
|  |  | Repair | —•— |  |  | 100,102<br>107 |  |
| 0911 | Lights |  |  |  |  |  |  |
| 0911 01 | Navigational, Instrument, Interior Cabin, and Anti-collision | Inspect | —•— |  |  |  |  |
|  |  | Test | —•— |  |  | 100,102<br>107 |  |
|  |  | Replace | —•— |  |  | 100,102<br>107 |  |
|  |  | Repair | —•— |  |  | 100,102<br>107 |  |
| 0911 02 | Flasher Unit | Inspect | —•— |  |  |  |  |
|  |  | Test | —•— |  |  | 100,102,<br>107 |  |
|  |  | Replace | —•— |  |  | 100,102<br>107 |  |
|  |  | Repair | —•— |  |  | 100,102<br>107 |  |

## MAINTENANCE ALLOCATION CHART

NOMENCLATURE OF END ITEMS

**HELICOPTER, UTILITY – TACTICAL TRANSPORT** UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY | | | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 0911 03 | Search Light Assembly | Inspect | —•— | | | | |
| | | Test | —•— | | | 100, 102, 107 | |
| | | Replace | —•— | | | 100, 102, 107 | |
| | | Repair | —•— | | | 100, 102, 107 | |
| | | Overhaul | | | —•— | | |
| 0911 04 | Landing Light Assembly | Inspect | —•— | | | | |
| | | Test | —•— | | | | |
| | | Replace | —•— | | | 100,102,107 | |
| | | Repair | | —•— | | 102,110 | |
| 0912 | Control Panels | Inspect | —•— | | | | |
| | | Replace | —•— | | | 100, 102, 107 | |
| | | Repair | —•— | | | 100, 102, 107 | |
| 0913 | Caution Panels | Inspect | —•— | | | | |
| | | Replace | —•— | | | 100, 102, 107 | |
| | | Repair | —•— | | | 100, 102, 107 | AI |
| | | | | —•— | | 102, 110 | |
| 0914 | RPM Warning Control Box | Inspect | —•— | | | | |
| | | Test | —•— | | | | |
| | | Adjust | —•— | | | | |
| | | Replace | —•— | | | 100, 102, 107 | |
| | | Repair | —•— | | | 100, 102, 107 | AI |
| | | Overhaul | | | —•— | | |

| MAINTENANCE ALLOCATION CHART | | | | | | | |
|---|---|---|---|---|---|---|---|
| NOMENCLATURE OF END ITEMS<br>HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H | | | | | | | |
| (1)<br>GROUP<br>NUMBER | (2)<br>COMPONENT/ASSEMBLY | (3)<br>MAINTENANCE FUNCTION | (4)<br>MAINTENANCE CATEGORY<br>AVUM | <br><br>AVIM | <br><br>DEPOT | (5)<br>TOOLS AND EQUIPMENT | (6)<br>REMARKS |
| 0915 | Chip Detector System | Inspect | —•— | | | | |
| | | Replace | —•— | | | 100, 102, 107 | |
| | | Repair | —•— | | | 100, 102, 107 | |
| 0916 | Elector-Mechanical Linear Actuator | Inspect | —•— | | | | EH-1H Only |
| | | Replace | —•— | | | 100, 102, 107 | |
| | | Repair | —•— | | | 100, 102, 107 | |
| | | Overhaul | | | —•— | | |
| 0917 | Alternator, 30 KVA | Inspect | —•— | | | | EH-1H Only |
| | | Test | | —•— | | 102, 110 | P |
| | | Replace | —•— | | | 100, 102, 107 | |
| | | Overhaul | | | —•— | | |
| 1000 | Fuel Systems | Test | —•— | | | | Q |
| 1001 | Pump, Submerged Fuel Booster | Inspect | —•— | | | | |
| | | Test | —•— | | | | |
| | | Replace | —•— | | | 102, 100 | |
| | | Repair | —•— | | | 102, 100 | |
| | | Overhaul | | | —•— | | |

## MAINTENANCE ALLOCATION CHART

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY AVUM | AVIM | DEPOT | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| 1002 | Hoses and Tubing | Inspect | — • — | | | | |
| | | Replace | — • — | | | 102, 100 | |
| 1003 | Adapters and Fittings | Inspect | — • — | | | | |
| | | Replace | — • — | | | 102, 100 | |
| 1004 | Valve, Safety Relief | Inspect | — • — | | | | |
| | | Replace | — • — | | | 102, 100 | |

## MAINTENANCE ALLOCATION CHART

(AVSCOM Reg 310-10)

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY |  |  | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
|  |  |  | AVUM | AVIM | DEPOT |  |  |
| 1005 | Cock, Drain | Inspect | — • — |  |  |  |  |
|  |  | Replace | — • — |  |  | 102, 100 |  |
| 1006 | Valve, Check | Inspect | — • — |  |  |  |  |
|  |  | Replace | — • — |  |  | 102, 100 |  |
| 1007 | Filter Assembly | Inspect | — • — |  |  |  |  |
|  |  | Replace | — • — |  |  | 102, 100 |  |
|  |  | Repair | — • — |  |  | 102, 100 |  |
| 1008 | Valve, Gate | Inspect | — • — |  |  |  |  |
|  |  | Test | — • — |  |  | 102, 100 |  |
|  |  | Replace | — • — |  |  | 102, 100 |  |
|  |  | Overhaul |  |  | — • — |  |  |
| 1009 | Valve, Manifold | Inspect | — • — |  |  |  |  |
|  |  | Replace | — • — |  |  | 102, 100 |  |
|  |  | Overhaul |  |  | — • — |  |  |
| 1010 | Transmitter, Pressure | Inspect | — • — |  |  |  |  |
|  |  | Replace | — • — |  |  | 102, 100 |  |
| 1011 | Crossover Assemblies | Inspect | — • — |  |  |  |  |
|  |  | Replace | — • — |  |  | 102, 100 |  |
|  |  | Repair | — • — |  |  | 102, 100 |  |

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|---|---|---|---|---|---|---|---|
|  |  |  | AVUM | AVIM | DEPOT |  |  |
| 1012 | Cap and Adapter Assy | Inspect | — • — |  |  |  |  |
|  |  | Replace | — • — |  |  | 102, 100 |  |
|  |  | Repair | — • — |  |  | 102, 100 |  |
| 1013 | Transmitter, Fuel Probe | Inspect | — • — |  |  |  |  |
|  |  | Replace | — • — |  |  | 102, 100 |  |
| 1014 | Switch Assembly, Float | Inspect | — • — |  |  |  |  |
|  |  | Test | — • — |  |  | 100, 102 |  |
|  |  | Replace | — • — |  |  | 102, 100 |  |
| 1015 | Tanks, Main Fuel, Both Crashworthy and Non-Crashworthy | Inspect | — • — |  |  |  |  |
|  |  | Replace | — • — |  |  | 102,101 | AK |
|  |  | Repair |  | — • — |  | 102 | AG |
| 1015 | Deleted |  |  |  |  |  |  |
| 1016 | Cross Fitting Assy | Inspect | — • — |  |  |  |  |
|  |  | Replace | — • — |  |  | 102, 100 |  |
| 1017 | Pump Assy, Ejector | Inspect | — • — |  |  |  |  |
|  |  | Replace | — • — |  |  | 102, 100 |  |

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HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

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|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 1018 | Valve, Flapper | Inspect | — • — | | | | |
| | | Replace | — • — | | | 102, 100 | |
| 1019 | Plates, Flapper Valve | Inspect | — • — | | | | |
| | | Replace | — • — | | | 102, 100 | |
| 1020 | Sump Assembly | Inspect | — • — | | | | |
| | | Replace | — • — | | | 102, 100 | |
| | | Repair | — • — | | | 102, 100 | |
| 1021 | Tank Assembly, Auxiliary, Internal, Both Crashworthy and Non-Crashworthy | Inspect | — • — | | | | |
| | | Service | — • — | | | | |
| | | Install | — • — | | | 102, 100 | |
| | | Replace | — • — | | | 102, 100 | |
| | | Repair | — • — | | | 102, 100 | |
| | | Overhaul | | | — • — | | |
| 1021 01 | Pump, Booster | Inspect | — • — | | | | |
| | | Replace | — • — | | | 102, 100 | |
| | | Repair | | — • — | | 102, | |
| 1022 | Tank Assembly, Auxiliary, External | Inspect | — • — | | | | |
| | | Service | — • — | | | 102, 100 | |
| | | Replace | — • — | | | 102, 100 | |

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NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY AVUM | AVIM | DEPOT | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| 1023 | Refuel, Receptacle, Closed Circuit | Inspect | — • — | | | 100, 102 | |
| | | Repair | — • — | | | 102 | |
| | | Repair | — • — | | | 100, 102 | |
| | | Repair | — • — | | | | |
| 1100 | Flight Controls System | | | | | | |
| 1101 | Main Rotor Control Tubes, Links and Rod Ends | Inspect | — • — | | | | |
| | | Adjust | — • — | | | 100, 102 | |
| | | Replace | — • — | | | 100, 102 | |
| | | Repair | — • — | | | 100, 102 | |
| 1102 | Flight Control Bearings | Inspect | — • — | | | | |
| | | Replace | | — • — | | 102,112 | |
| 1103 | Cyclic Control System | | | | | | |
| 1103 01 | Stick | Inspect | — • — | | | | |
| | | Adjust | — • — | | | T32, 101, 102 | AK |
| | | Replace | — • — | | | T32, 101, 102 | |
| | | Repair | — • — | | | T32, 101, 102 | |

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NOMENCLATURE OF END ITEMS

**HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H**

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY | | | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 1103 02 | Tube and Lever Assembly | Inspect | — • — | | | | |
| | | Align | — • — | | | 100, 102, | |
| | | Replace | — • — | | | 100, 102, | |
| | | Repair | — • — | | | T87,100, 102, | |
| 1103 03 | Magnetic Brake | Inspect | — • — | | | | |
| | | Adjust | — • — | | | 100, 102, | |
| | | Replace | — • — | | | 100, 102, | |
| | | Repair | | — • — | | | |
| | | Overhaul | | | — • — | | AN |
| 1103 04 | Force Gradient | Inspect | — • — | | | | |
| | | Adjust | — • — | | | 100, 102, | |
| | | Replace | — • — | | | 100, 102, | |
| | | Repair | | — • — | | 102, 112, 118 | |
| 1103 05 | Mixing Lever Assembly | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100, 102, | |
| | | Repair | — • — | | | 100, 102, | |
| 1103 06 | Tubes, Links and Clevises | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100, 102, | |
| | | Repair | | — • — | | 102, 112, 118 | |

## MAINTENANCE ALLOCATION CHART

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HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY | | | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 1103 07 | Bellcranks, Levers, and Supports | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100,102 | |
| | | Repair | | — • — | | 102,112 118 | |
| 1104 | Collective Control System | | | | | | |
| 1104 01 | Jackshift | Inspect | — • — | | | | |
| | | Adjust | — • — | | | 100,102 | |
| | | Replace | — • — | | | 100,102 | |
| | | Repair | | — • — | | T87,102 112,118 | |
| 1104 02 | Control Assembly | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100,102 | |
| | | Repair | | — • — | | 102,112 118 | |
| 1104 03 | Pilot's Stick | Inspect | — • — | | | | |
| | | Adjust | — • — | | | T32,101 102 | |
| | | Replace | — • — | | | 101,102 | |
| | | Repair | — • — | | | 101,102 | AK |

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|---|---|---|---|---|---|---|---|
| 1104<br>04 | Co-pilot's Stick | Inspect | — • — | | | | |
| | | Adjust | — • — | | | T32,101<br>102 | |
| | | Replace | — • — | | | 101,102 | |
| | | Repair | — • — | | | 101,102 | AK |
| 1104<br>05 | Control Tubes | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100,102 | |
| | | Repair | — • — | | | 100,102 | |
| 1104<br>06 | Bellcranks, Levers, and Supports | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100,102 | |
| | | Repair | | — • — | | 112,102<br>118,120 | |
| 1105 | Elevator Control System | | | | | | |
| 1105<br>01 | Control Tubes | Inspect | — • — | | | | |
| | | Adjust | — • — | | | 100,102 | |
| | | Replace | — • — | | | 100,102 | |
| | | Repair | — • — | | | 100,102 | |

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HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY |  |  | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
|  |  |  | AVUM | AVIM | DEPOT |  |  |
| 1105<br>02 | Bellcranks, Levers and Supports | Inspect | — • — |  |  |  |  |
|  |  | Replace | — • — |  |  | 100,102 |  |
|  |  | Repair |  | — • — |  | 102,112<br>118,120 |  |
| 1106 | Tail Rotor Control System |  |  |  |  |  |  |
| 1106<br>01 | Control Cables | Inspect | — • — |  |  |  |  |
|  |  | Replace | — • — |  |  | 100,102 |  |
|  |  | Repair | — • — |  |  | 101,102 |  |
| 1106<br>02 | Adjustor Assembly | Inspect | — • — |  |  |  |  |
|  |  | Replace | — • — |  |  | 101,102 |  |
|  |  | Repair |  | — • — |  | 102,112<br>118 |  |
| 1106<br>03 | Control Pulleys | Inspect | — • — |  |  |  |  |
|  |  | Replace | — • — |  |  | 100,102 |  |
| 1106<br>04 | Control Quadrant | Inspect | — • — |  |  |  |  |
|  |  | Replace | — • — |  |  | 100,102 |  |
|  |  | Repair | — • — |  |  | 100,102 |  |

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|---|---|---|---|---|---|---|---|
| 1106 05 | Rod and Quill | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100,102 | |
| | | Repair | | — • — | | T43,102<br>112,118<br>120 | |
| 1106 07 | Force Gradient | Inspect | — • — | | | | |
| | | Adjust | — • — | | | 100,102 | |
| | | Replace | — • — | | | 100,102 | |
| | | Repair | | | | 102,112<br>118 | |
| 1106 08 | Control Tubes | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100,102 | |
| | | Repair | — • — | — • — | | 100,102 | |
| 1106 09 | Bellcranks, Levers, and Supports | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100,102 | |
| | | Repair | | — • — | | 112,118<br>120 | |

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|---|---|---|---|---|---|---|---|
| 1106 09 | Control Chain (Roller Type) | Inspect | — • — | | | | |
| | | Adjust | — • — | | | 100,102 | |
| | | Replace | — • — | | | 100,102 | |
| | | Repair | — • — | | | 100,102 | |
| 1200 | Utility Systems | | | | | | |
| 1201 | Mirror Assembly | Inspect | — • — | | | | |
| | | Install | — • — | | | 102,100 | |
| | | Replace | — • — | | | 102,100 | |
| | | Repair | — • — | | | 102,100 | |
| 1202 | Windshield Wiper Assembly | | | | | | |
| 1202 01 | Blade and Arm | Inspect | — • — | | | | |
| | | Replace | — • — | | | 102,100 | |
| 1202 02 | Motor and Converter Assembly | Inspect | — • — | | | | |
| | | Adjust | — • — | | | 100,102 | |
| 1202 02 01 | Motor Assembly | Inspect | — • — | | | | |
| | | Replace | — • — | | | 102,100 | |
| | | Repair | — • — | | | 102,100 | |

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|---|---|---|---|---|---|---|---|
|  |  |  | AVUM | AVIM | DEPOT |  |  |
| 1202<br>02<br>02 | Converter Assy | Inspect | —•— |  |  |  |  |
|  |  | Replace | —•— |  |  | 102,100 |  |
|  |  | Repair | —•— |  |  | 102,100 |  |
| 1202<br>02<br>03 | Headguard | Inspect | —•— |  |  |  |  |
|  |  | Replace | —•— |  |  | 102,100 |  |
| 1203 | Detection System, Fire | Inspect | —•— |  |  |  |  |
|  |  | Test | —•— |  |  | 100,102 |  |
| 1203<br>01 | Wiring | Inspect | —•— |  |  |  |  |
|  |  | Replace | —•— |  |  | 102,100 |  |
| 1203<br>02 | Fire Detector Control Box | Inspect | —•— |  |  |  |  |
|  |  | Replace | —•— |  |  | 102,100 |  |
| 1300 | Environmental Control Systems |  |  |  |  |  |  |
| 1301 | Distribution System, Bleed Air | Test | —•— |  |  | 100,102 | Q |
| 1301<br>01 | Hoses, Tubing, Ducts | Inspect | —•— |  |  |  |  |
|  |  | Replace | —•— |  |  | 100,102 |  |
| 1301<br>02 | Registers and Nozzles | Inspect | —•— |  |  |  |  |
|  |  | Replace | —•— |  |  | 100,102 |  |

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|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 1301 03 | Valve Assy, Heating Selector | Inspect | — • — | | | | |
| | | Replace | — • — | | | 102, 100 | |
| | | Repair | — • — | | | 102, 100 | |
| 1301 04 | Thermostatic Switch | Inspect | — • — | | | | |
| | | Replace | — • — | | | 102, 100 | |
| 1301 05 | Valve Assy, Mixing | Inspect | — • — | | | | |
| | | Replace | — • — | | | 102, 100 | |
| | | Overhaul | | | — • — | | |
| 1301 06 | Valve, Air Distribution | Inspect | — • — | | | | |
| | | Replace | — • — | | | 102, 100 | |
| | | Overhaul | | | — • — | | |
| 1302 | Auxiliary Exhaust Heater System (Muff) | Install | — • — | | | 102, 100 | |
| 1302 01 | Heat Exchanger | Inspect | — • — | | | | |
| | | Test | — • — | | | | |
| | | Replace | — • — | | | 102, 100 | |
| | | Repair | — • — | | | 102, 100 | |
| | | Overhaul | | | — • — | | |

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|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 1302 02 | Hoses, Tubing, Ducts | Inspect | —•— | | | | |
| | | Replace | —•— | | | 102,100, | |
| 1302 03 | Blower Unit | Inspect | —•— | | | | |
| | | Replace | —•— | | | 102, 100 | |
| | | Repair | —•— | | | 102, 100 | M |
| | | | | —•— | | 102, 112 | |
| 1302 04 | Valve, Mixing | Inspect | —•— | | | | |
| | | Replace | —•— | | | 102, 100 | |
| | | Repair | —•— | | | 102, 100 | M |
| | | | | —•— | | 102, 112 | |
| 1302 05 | Plenum Assembly | Inspect | —•— | | | | |
| | | Replace | —•— | | | 102, 100 | |
| | | Repair | —•— | | | 102, 100 | M |
| | | | | —•— | | 102, 112 | |
| 1302 06 | Switch, Overheat | Inspect | —•— | | | | |
| | | Replace | —•— | | | 102, 100 | |

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|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 1400 | Hoist and Winches | | | | | | |
| 1401 | Rescue Hoist Assembly | Inspect | — • — | | | | |
| | | Test | — • — | | | | |
| | | Service | — • — | | | 100, 102, 107 | |
| | | Install | — • — | | | 100, 102 | |
| | | Replace | — • — | | | 100, 102 | |
| | | Repair | — • — | | | 100, 102, 107 | |
| | | Overhaul | | — • — | — • — | 102, 110 | |
| 140101 | Post and Locknut | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100, 102, | |
| | | Repair | — • — | | | 100, 102, | |
| 140102 | Hoist Cable | Inspect | — • — | | | | |
| | | Replace | — • — | | | T5, 100, 102 | |
| 140103 | Guillotine and Support | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100, 102 | |
| | | Repair | — • — | | | 100, 102 | |

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|---|---|---|---|---|---|---|---|
| 1401 04 | Guide Tube | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100, 102 | |
| | | Repair | — • — | | | 100, 102 | |
| 1401 05 | Boom | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100, 102 | |
| | | Repair | — • — | | | 100, 102 | |
| 1401 06 | Trigger Assembly | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100, 102, 107 | |
| | | Repair | — • — | | | 100, 102, 107 | |
| 1401 07 | Side Plates and Roller | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100, 102 | |
| | | Repair | — • — | | | 100, 102 | |

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|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 1401 08 | Limit Switches | Inspect | — • — | | | | |
| | | Adjust | — • — | | | 100, 102, 107 | |
| | | Replace | — • — | | | 100, 102, 107 | |
| | | Repair | — • — | | | 100, 102, 107 | |
| 1401 09 | Overload Sensing Relay | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100, 102, 107 | |
| | | Repair | — • — | | | 100, 102, 107 | |
| 1401 10 | Hook and Bumper Assembly | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100, 102 | |
| | | Repair | — • — | | | 100, 102 | |
| 1401 11 | Adapters | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100, 102 | |

## MAINTENANCE ALLOCATION CHART

(AVSCOM Reg 310-10)

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY |  |  | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
|  |  |  | AVUM | AVIM | DEPOT |  |  |
| 1401 12 | Power Cables | Inspect | —•— |  |  |  |  |
|  |  | Replace | —•— |  |  | 100, 102, 107 |  |
|  |  | Repair | —•— |  |  | 100, 102, 107 |  |
| 1401 13 | Control Box | Inspect | —•— |  |  |  |  |
|  |  | Test |  | —•— |  | 102, 110, 118 |  |
|  |  | Replace |  | —•— |  | 102, 110, 118 |  |
|  |  | Repair |  | —•— |  | 102, 110, 118 |  |
|  |  | Overhaul |  |  | —•— |  |  |
| 1401 14 | Control Pendant | Inspect | —•— |  |  |  |  |
|  |  | **Test** |  | —•— |  | 102, 110 |  |
|  |  | Replace |  | —•— |  | 102, 110, 118, 120 |  |
|  |  | Repair |  | —•— |  | 102, 118, 120 |  |
|  |  | Overhaul |  |  | —•— |  |  |

## MAINTENANCE ALLOCATION CHART
(AVSCOM Reg 310-10)

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY AVUM | AVIM | DEPOT | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| 140115 | Hoist Drive Unit | Inspect | — • — | | | | |
| | | Test | — • — | | | | |
| | | Replace | — • — | | | 100, 102, 107 | |
| | | Repair | | — • — | | 102, 110, 112, 118 | |
| | | Overhaul | | | — • — | | |
| 140116 | Hoist Cable Storage Drum | Inspect | — • — | | | | |
| | | Test | — • — | | | | |
| | | Replace | — • — | | | 100, 102, 110 | |
| | | Repair | | — • — | | 102, 110, 112, 120, 119 | |
| 140117 | Rubber Pressure Roller | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100, 102 | |
| | | Repair | — • — | | | 100, 102 | |

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NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY | | | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 1401 18 | Actuator and Lever | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100, 102 | |
| | | Repair | — • — | | | 100, 102 | |
| | | Overhaul | | | — • — | | |
| 1401 19 | Lower Post Support | Inspect | — • — | | | | |
| | | Replace | — • — | | | 100, 102 | |
| | | Repair | — • — | | | 100, 102 | |
| 1402 | Cargo Suspension System | | | | | | |
| 1402 01 | Cargo Suspension Assembly | Inspect | — • — | | | | |
| | | Test | — • — | | | | |
| | | Service | — • — | | | 100, 102 | |
| | | Adjust | — • — | | | 100, 102 | |
| | | Install | — • — | | | 100, 102 | |
| | | Replace | — • — | | | 100, 102 | |
| | | Repair | — • — | | | 100, 102 | |

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NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY | | | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 140202 | Release Cables | Inspect | — • — | | | | |
| | | Install | — • — | | | 100, 102 | |
| | | Replace | — • — | | | 100, 102 | |
| | | Repair | — • — | | | 100, 102 | |
| 140203 | Pedal Assembly | Inspect | — • — | | | | |
| | | Install | — • — | | | 100, 102 | |
| | | Replace | — • — | | | 100, 102 | |
| | | Repair | — • — | | | 100, 102 | |
| 140204 | Cargo Hook | Inspect | — • — | | | | |
| | | Service | — • — | | | 100, 102 | |
| | | Adjust | — • — | | | 100, 102 | |
| | | Install | — • — | | | 100, 102 | |
| | | Replace | — • — | | | 100, 102 | |
| | | Repair | | — • — | | 102, 112, 118, 120 | |

## MAINTENANCE ALLOCATION CHART

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NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY - TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY AVUM | AVIM | DEPOT | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| 1403 | Rescue Hoist Assembly, High Performance | Inspect | —.— | | | | |
| | | Test | —.— | | | 107 | |
| | | Service | —.— | | | 100, 102 | |
| | | Install | —.— | | | 101,102 | |
| | | Replace | —.— | | | 101,102 | |
| | | Repair | —•— | | | 100, 102,<br>107 | |
| 1403<br>01 | Winch Assembly | Repair<br>Overhaul | | | —•— | 118 | |
| | | Inspect | —.— | | | 107, 102<br>T3 | |
| | | Test | —.— | | | 100, 102 | |
| | | Service | —.— | | | | |
| | | Replace | —.— | | | 101, 102<br>107 | |
| | | Repair | —.— | —•— | | 101,102<br>107,110 | |
| | | Overhaul | | | —.— | | |
| 1403<br>01<br>01 | Limit Switch Drive Assembly | Inspect | —.— | | | | |
| | | Adjust | —.— | | | 101,102 | |
| | | Replace | —.— | | | 101,102 | |
| | | Repair | —.— | | | 101,102<br>107,T3 | |
| | | Test | —•— | | | 110 | |

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HELICOPTER, UTILITY - TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY | | | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 1403<br>01<br>01 | Switches and Connector | Inspect | —.— | | | | |
| | | Replace | —.— | | | 101,102 | |
| 1403<br>01<br>02 | Motor Assembly | Inspect | —.— | | | | |
| | | Test | | — • — | — • — | 110 | |
| | | Repair | —.— | | | 107, T3 | AO |
| | | Replace | —.— | | | 101,102<br>107 | |
| | | Overhaul | | | —.— | | |
| 1403<br>01<br>03 | Brake Assembly | Inspect | —.— | | | | |
| | | Test | | | | 101, 102<br>107 | |
| | | Replace | —.— | | | 101, 102<br>107 | |
| | | Overhaul | | | —.— | | |
| 1403<br>01<br>04 | Chain | Inspect | — • — | | | | |
| | | Adjust | — • — | | | 101,102 | |
| | | Replace | — • — | | | 101,102 | |
| 1403<br>01<br>05 | Cable Hook Assembly | Inspect | —.— | | | | |
| | | Service | —.— | | | 100, 102 | |
| | | Replace | —.— | | | 101,102 | |
| | | Repair | —.— | | | 101,102 | |

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NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY - TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY |  |  | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
|  |  |  | AVUM | AVIM | DEPOT |  |  |
| 1403 02 | Boom Assembly | Inspect | —.— |  |  |  |  |
|  |  | Test | —.— |  |  | 101, 102 107, T3, 110 |  |
|  |  | Service | —.— |  |  | 100, 102 |  |
|  |  | Adjust | —.— |  |  | 101, 102 107 |  |
|  |  | Align | —.— |  |  | 101, 102 107 |  |
|  |  | Repair | —.— |  |  | 101, 102 107 |  |
|  |  | Replace |  |  | —.— |  |  |
|  |  | Test |  |  |  |  |  |
| 1403 02 01 | Up Limit Actuator | Inspect | —•— |  |  |  |  |
|  |  |  | —•— |  |  | 101, 102 107 |  |
|  |  |  | —•— |  |  | 101, 102 107 |  |
|  |  | Replace | —•— |  |  | 101, 102 107 |  |
|  |  | Repair | —•— |  |  | 101, 102 107 |  |
| 1403 02 02 | Cable Assembly | Inspect | —.— |  |  |  |  |
|  |  | Replace | —.— |  |  | 101, 102 107 |  |
| 1403 02 03 | Full-Up Limit Switches | Inspect | —.— |  |  |  |  |
|  |  | Adjust | —.— |  |  | 101, 102 107 |  |
|  |  | Adjust | —.— |  |  | 101, 102 107 |  |
|  |  | Replace | —.— |  |  | 101, 102 107 |  |
|  |  | Repair | —•— |  |  | 101, 102 107 |  |
|  |  | Test | —•— | —•— |  | 107,110 T3 |  |

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## MAINTENANCE ALLOCATION CHART

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HELICOPTER, UTILITY - TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY | | | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 1403<br>03 | Post Structure/Boom Position Actuator Assy | Inspect | —•— | | | | |
| | | Test | —•— | | | 107,101,<br>T3 | |
| | | Service | —•— | | | 100, 102, | |
| | | Adjust | —•— | | | 101,102<br>107 | |
| | | Replace | —•— | | | 101,102<br>107, | |
| | | Repair | —•— | | | 101,102<br>107 | |
| | | | | —•— | | 102,110 | |
| | | Overhaul | | | —•— | | |
| 1403<br>03<br>01 | Motor | Inspect | | —•— | | | |
| | | Test | | —•— | | 110,102 | |
| | | Replace | | —•— | | 102.110 | |
| | | Repair | | —•— | | 102,110 | |
| | | Overhaul | | | —•— | | |
| 1403<br>03<br>02 | Stanchion | Inspect | —•— | | | | |
| | | Service | —•— | | | 100,102 | |
| | | Replace | —•— | | | 100, 102, | |
| | | Repair | —•— | —•— | | 102, 110<br>118, 101 | |
| 1403<br>03<br>03 | Mechanical Stop Assembly | Inspect | —•— | | | | |
| | | Adjust | | —•— | | 102 | |
| | | Replace | | —•— | | 102 | |
| | | Overhaul | | | —•— | | |

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NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY - TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY | | | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 1403<br>03<br>04 | Rotary Actuator Assy | Inspect | —•— | | | | |
| | | Test | | ___·___ | | 110 | |
| | | Replace | | ___·___ | | 102,110 | |
| | | Repair | | —•— | | 102, 110 | |
| 1403<br>03<br>05 | Reaction Arm Assembly | Inspect | ___·___ | | | | |
| | | Service | ___·___ | | | 100,102 | |
| | | Overhaul | | —•— | —•— | 102 | |
| | | Replace | ___·___ | | | 101,102 | |
| | | Repair | ___·___ | | | 101,102 | |
| 1403<br>03<br>06 | Limit Switches | Inspect | ___·___ | | | | |
| | | Adjust | ___·___ | | | 107,101 | |
| | | Replace | ___·___ | | | 101,102<br>107 | |
| | | Repair | ___·___ | | | 101,102<br>107 | |
| 1403<br>03<br>07 | Inertia Dump Assembly | Inspect | | ___·___ | | | |
| | | Adjust | | ___·___ | | 102,110 | |
| | | Replace | | ___·___ | | 102,110 | |
| | | Repair | | ___·___ | | 102,110 | |
| 1403<br>03<br>08 | Stanchion, Upper | Inspect | —•— | | | | |
| | | Service | —•— | | | 100,102 | |
| | | Replace | —•— | | | 101,102 | |
| | | Repair | | —•— | | 102 | |

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NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY - TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY AVUM | AVIM | DEPOT | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| 1403<br>04 | Control Panel | Inspect | ___.___ | | | | |
| | | Test | — • — | | | 110 | |
| | | Replace | ___.___ | | | 101,102,<br>107 | |
| | | Repair | ___.___ | | | 101,102,<br>107 | |
| | | Overhaul | | — • — | — • — | 102,110 | |
| 1403<br>04<br>01 | Cables | Inspect | ___.___ | | | | |
| | | Replace | ___.___ | | | 107,101,<br>102 | |
| | | Repair | ___.___ | | | 107,101,<br>102 | |
| 1403<br>04<br>02 | Lamps | Inspect | ___.___ | | | | |
| | | Replace | ___.___ | | | 101,102 | |
| 1403<br>05 | Control Pendant | Inspect | ___.___ | | | | |
| | | Test | ___.___ | | | 107 | |
| | | Replace | ___.___ | | | 101,102,<br>107 | |
| | | Repair | ___.___ | | | 101,102,<br>107 | |
| | | Overhaul | | | ___.___ | | |
| 1403<br>05<br>01 | Indicator Lamp | Inspect | ___.___ | | | | |
| | | Replace | ___.___ | | | 100, 102 | |

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| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY | | | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 1600 | Mission Equipment | | | | | | |
| 1601 | Smoke Generator Subsystem | Inspect | ___.___ | | | | |
| | | Service | ___.___ | | | | |
| | | Install | ___.___ | | | 102,100 | |
| | | Replace | ___.___ | | | 102,100 | |

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|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 1602 | Curtain Assy, Blackout | Inspect | — • — | | | | |
| | | Install | — • — | | | 102,100 | |
| | | Replace | — • — | | | 102,100 | |
| | | Repair | — • — | | | 102,100 | |
| 1603 | Paratroop Static Line | Inspect | — • — | | | | |
| | | Install | — • — | | | 102,100 | |
| | | Replace | — • — | | | 102,100 | |
| 1604 | Support Assy, External Stores | Inspect | — • — | | | | |
| | | Install | — • — | | | 102,100 | |
| | | Replace | — • — | | | 102,100 | |
| | | Repair | — • — | | | 102,100 | |
| 1605 | Heat Suppression (IR) | Inspect | — • — | | | | |
| | | Install | — • — | | | | |
| | | Replace | — • — | | | 102,100 | |
| | | Repair | — • — | | | 102,100 | |
| 1606 | Litter Racks | Inspect | — • — | | | | UH-1V only |
| | | Install | — • — | | | 102,100 | |
| | | Replace | — • — | | | 102,100 | |
| | | Repair | — • — | | | 102,100 | |

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HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY | | | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 1606 01 | Strap Assy, Support | Inspect | — • — | | | | UH-1V only |
| | | Install | — • — | | | 102,100 | |
| | | Replace | — • — | | | 102,100 | |
| | | Repair | — • — | | | 102,100 | |
| 1606 02 | Support | Inspect | — • — | | | | UH-1V only |
| | | Install | — • — | | | 102,100 | |
| | | Replace | — • — | | | 102,100 | |
| | | Repair | — • — | | | 102,100 | |
| 1606 03 | Belts | Inspect | — • — | | | | UH-1V only |
| | | Install | — • — | | | 102,100 | |
| | | Replace | — • — | | | 102,100 | |
| 1607 | Pylon Assembly, External Stores | Inspect | — • — | | | | |
| | | Install | — • — | | | 102,100 | |
| | | Replace | — • — | | | 102,100 | |
| | | Repair | — • — | | | 102,100 | |
| 1608 | Armament Subsystem, M60C | Inspect | — • — | | | | |
| | | Install | — • — | | | 102,100 | |
| | | Replace | — • — | | | 102, 100 | |
| | | Repair | — • — | | | | S |

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|---|---|---|---|---|---|---|---|
|  |  |  | AVUM | AVIM | DEPOT |  |  |
| 1609 | Rack, External Stores | Inspect | — • — |  |  |  |  |
|  |  | Install | — • — |  |  | 102,100 |  |
|  |  | Replace | — • — |  |  | 102,100 |  |
|  |  | Overhaul |  |  | — • — |  |  |
| 1610 | Armament Subsystem, M56 | Inspect | — • — |  |  |  |  |
|  |  | Adjust | — • — |  |  |  |  |
|  |  | Align | — • — |  |  |  |  |
|  |  | Install | — • — |  |  | 102,100 |  |
|  |  | Replace | — • — |  |  | 102,100 |  |
|  |  | Repair | — • — |  |  | 102,100 |  |
| 1610 01 | Manual Jettison, External | Inspect | — • — |  |  |  |  |
|  |  | Adjust | — • — |  |  |  |  |
|  |  | Align | — • — |  |  |  |  |
|  |  | Replace | — • — |  |  | 102,100 |  |
| 1610 02 | Tube Assy, Strut | Inspect | — • — |  |  |  |  |
|  |  | Replace | — • — |  |  | 102,100 |  |
|  |  | Repair | — • — |  |  | 102,100 |  |

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| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY | | | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 1610 02 01 | Damper Assembly | Inspect | — • — | | | | |
| | | Adjust | — • — | | | | |
| | | Replace | — • — | | | 102,100 | |
| 1610 03 | Dispenser, Control Panel | Inspect | — • — | | | | |
| | | Replace | — • — | | | 102,100 | |
| | | Repair | — • — | | | | T |
| 1611 | Armament Subsystem, M23 | Inspect | — • — | | | | |
| | | Replace | — • — | | | 102,100 | |
| | | Repair | — • — | | | | U |
| 1611 01 | Mount Assembly | Inspect | — • — | | | | |
| | | Replace | — • — | | | 102,100 | |
| | | Repair | — • — | | | 102,100 | |

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HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY | | | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| | | | AVUM | AVIM | DEPOT | | |
| 1612 | Blood Bottle Hooks | Inspect | —•— | | | | UH-1V only |
| | | Replace | —•— | | | 102,T100 | |
| 1613 | Armament Subsystem M130 | Inspect | —•— | | | | EH-1H/X only |
| | | Install | —•— | | | 102,T100 | |
| | | Replace | —•— | | | 100,102 | |
| | | Repair | —•— | | | 100,102 | |
| 1700 | Emergency Equipment | | | | | | |
| 1701 | First Aid Kit | Inspect | —•— | | | | |
| | | Replace | —•— | | | 102,100 | |
| | | Repair | —•— | | | | W |
| 1702 | Fire Extinguisher | Inspect | —•— | | | | |
| | | Replace | —•— | | | 102,100 | |
| | | Repair | —•— | | | | X |

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## MAINTENANCE ALLOCATION CHART
(AVSCOM Reg 310-10)

NOMENCLATURE OF END ITEMS

HELICOPTER, UTILITY — TACTICAL TRANSPORT UH-1H/UH-1V/EH-1H

| (1) GROUP NUMBER | (2) COMPONENT/ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE CATEGORY AVUM | AVIM | DEPOT | (5) TOOLS AND EQUIPMENT | (6) REMARKS |
|---|---|---|---|---|---|---|---|
| 1702 01 | Bracket | Inspect | — • — | | | | |
| | | Replace | — • — | | | 102,100 | |
| 1703 | Jettison System, Internal, External Stores | Inspect | — • — | | | | |
| | | Adjust | — • — | | | | |
| | | Install | — • — | | | 102,100 | |
| | | Replace | — • — | | | 102,100 | |
| | | Repair | — • — | | | 102,100 | |
| 1800 | Installed Avionics Components | | | | | | R |

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## SECTION III. TOOL AND TEST EQUIPMENT REQUIRMENTS

| TOOL OR TEST EQUIPMENT REFERENCE CODE | MAINTENANCE CATEGORY | NOMENCLATURE | NATIONAL STOCK NO. | TOOL NO. |
|---|---|---|---|---|
| T1 | O | Adapter, Balancing | 4920-00-168-9797 | AA4920-8503 |
| T2 | O | **Attachment Set, Spanner** | **SKO** | AN8515 |
| T3 | O | Multimeter | Toe | AN/URM-105C |
| **T3.1** | **0** | **Tester Exhaust Gas** | **TDE** | **BH112JA-53** |
| T4 | O | Blind Bolt or Nut | 5120-00-733-7119 | BH120-1032M3 |
| T5 | O | Wrench, Spline |  | BL-6529 |
| T7 | O | Meter, Frequency |  | JTB Model 33FS |
| T8 |  | Deleted |  |  |
| T9 |  | Deleted |  |  |
| T10 |  | Deleted |  |  |
| **T10.1** | **0** | **Tester Press Gage** | **SKO** | **MP-1** |
| T11 | **0** | Wrench, Power | **SKO** | PD1201 |
| T12 | **0** | Socket, Mast Nut | **5120-00-619-9779** | PD2659 |
| T13 |  | Adapter, Reaction | **5120-00-619-9779** | PD2660 |
| T14 | O | **Replaced by T11** |  |  |
| T15 | F | Plate, Anchor | 4920-00-713-1366 replaced by | SWE124330 |
|  | F | Socket, Splined | 5120-00-619-9774 | PD2657 |
| T16 | F | Socket, Splined | 5120-00-619-9773 | PD2658 |
| T17 | O | Adapter Arm, Engine | **SKO** | SWE13852-1210 |
| T19 | O | Transmission Adapter | **4290-00-676-2307** | **SWE123852-40** |
| T20 | F | Adapter |  | SWE13852-500 |
| T21 | O | Stand, Maintenance |  | SWE13855 |
| **T21.1** | **0** | **Mobil Engine Test Unit** | **TDE** | **TE12062** |
| T22 | O | Sling, Aircraft, Maintenance | **1730-00-0990-9 8099** | T100220 |

| TOOL OR TEST EQUIPMENT REFERENCE CODE | MAINTENANCE CATEGORY | NOMENCLATURE | NATIONAL STOCK NUMBER | TOOL NO. |
|---|---|---|---|---|
| T23 | F | Fixture | | T100615-13LW |
| T24 | F | Installing tool, seal | **5120-00-150-7346** | **T555-7** |
| T25 | F | Fixture, Holding | 4920-01-037-7105 | T205-076-099-2 |
| T26 | F | Thumbscrew Set | 5305-00-765-4469 | T100929 |
| T27 | F | **Same as T16** | | |
| | F | **Same as T16** | | |
| T28 | F | Adapter | 5130-00-676-1681<br>replaced by | T101304 |
| | F | Socket, Splined | 5120-00-619-9774 | PD2657 |
| **T28.1** | | **Wrench, Transmission** | **4920-00-737-6435** | **T101305** |
| T29 | O | Wrench, Transmission | 4920-00-797-3672 | T101306 |
| T30 | O | Wrench, Tail Rotor | 4920-00-718-6533 | T101307 |
| T31 | O | Jack Screw Set | 4920-00-710-7946 | T101308 |
| T32 | O | Rigging Fixture | 1730-00-678-5412 | T101330 |
| T33 | O | Jack Screw Set | 4920-00-765-4410 | T101338 |
| T34 | O | **Build-up Bench** | 4920-00-678-5431 | T101356 |
| T35 | O | Fixture, Holding | 4920-00-474-0569 | T101365 |
| T36 | F | Support, Scissors | 4920-00-786-1756 | T101369 |
| T37 | F | Ram, Adapter, Scissors | 4920-00-713-5555 | T101382 |
| T38 | F | Socket, Wrench, Face | 5120-01-033-5410<br>5120-00-033-5090<br>5120-00-033-2112 | PD1469<br>PD1470<br>PD1471 |
| T39 | O | Support, Rotor Adj. | 4920-00-718-6677 | T101400 |
| T40 | O | Scope Assy, Blade | 4920-00-718-6674 | T101401 |

| TOOL OR TEST EQUIPMENT REFERENCE CODE | MAINTENANCE CATEGORY | NOMENCLATURE | NATIONAL STOCK NO. | TOOL NO. |
|---|---|---|---|---|
| T41 | O | Link, Grip Positioning | 4920-00-718-6673 | T101402 |
| T42 | O | Plate, Yoke Bearing | 4920-00-718-6666 | T101406 |
| T43 | O | Seal & Bearing Tool | 4920-00-793-2134 | T101407 |
| T44 | F | Tool, Build-up | 4920-00-251-2509<br>replaced by | T101412 |
| | O | Tool, Grip Spacing | 4920-00-251-2509 | T101457 |
| T45 | O | Socket, Wrench | 5120-00-044-1426 | T101414 |
| T46 | O | Hoist Assembly | 4920-00-996-0860<br>replaced by | T101416 |
| | O | Hoisting Unit, Engine | 1730-00-073-9258 | T101452 |
| T47 | O | Tool Set, Align | 5120-00-894-6540 | T101419 |
| T48 | O | Fixture, Holding | 4920-00-876-0103 | T101420 |
| T49 | O | Plate | 4920-00-898-0015 | T101421 |
| T50 | O | Bar, Bearing Removal | 4920-00-876-0102 | T101424 |
| T51 | O | Jack Set | 4920-00-805-5123 | T101440 |
| T52 | O | Socket, Wrench, Face | 5120-00-967-7699 | T101449 |
| T53 | O | **Same as T46** | | |
| T54 | O | Jaw, Puller | 5120-00-996-3942 | T101455 |
| T55 | O | Wrench | 5120-00-018-0220 | T101456 |
| T56 | O | Tool, Grip Spacing | 4920-00-251-2509 | T101457 |
| T56.1 | O | Bending Gage, M/R Blade Trim Tab | 5210-00-919-2374 | T101485 |
| T56.2 | O | Stop, Flap | 5210-00-924-7756 | T101468 |
| T56.3 | O | Support, M/R | 4920-00-907-7649 | T101467 |
| T56.5 | F | Grip Spacing Tool | 5220-00-907-7024 | T101474 |

| TOOL OR TEST EQUIPMENT REFERENCE CODE | MAINTENANCE CATEGORY | NOMENCLATURE | NATIONAL STOCK NUMBER | TOOL NO. |
|---|---|---|---|---|
| T56.6 | F | Bearing Removal Tool | 5120-00-907-4889 | T101475 |
| T56.7 | F | Installing Tool | 5120-00-925-5085 | T101487 |
| T57 | O | Wrench, Input Quill | 5120-00-932-3670 | T101488 |
| T57.1 | F | Bearing Puller | 5120-00-999-5306 | T101491 |
| T58 |  | Same As T38 |  |  |
|  |  | Same As T38 |  |  |
| T58.1 |  | Same As T38 |  |  |
| T59 | O | Gage, Grip Spacing | 5120-00-182-3779 | T101559 |
| T59.1 | F | Installing Tool | 5120-00-407-7330 | T101586 |
| T60 | O | Wrench, Spanner | 5120-00-421-7401 | T101600 |
| T61 |  | **Deleted** |  |  |
| T61.1 | O | Lock, M/R | 5120-00-451-2956 | T101864 |
| T62 | O | Positioning Tool | 5120-00-477-0874 | T101865 |
| T62.1 | F | Fixture, Torque | 4920-00-491-3559 | T41000310-1 |
| T63 | F | Adapter, Torque Wrench | 5120-00-480-7728 | T41000870-1 |
| T65 |  | Cable, Extention | To Be Fabricated | 1560-UH1-772-1 |
| T66 |  | Cable, Jumper | To Be Fabricated | 1560-UH1-772-2 |
| T67 |  | Wrench, Spanner |  | 204-076-202-100B |
| T68 |  | Bridge, Automatic, (Simmonds) Capacitance | To Be Fabricated | 387011 |
| T69 |  | Field Calibration |  | 387991-003 |
| T70 | O | Maintenance Stand | SKO | 4920-EG-008 |
| T71 |  | Same As T70 |  |  |
| T72 | F | Wrench, Adapter |  | 67SP1275-011 |
| T72.1 | F | Installing Tool | 5120-00-114-1176 | 68SAVAED0221 |

| TOOL OR TEST EQUIPMENT REFERENCE CODE | MAINTENANCE CATEGORY | NOMENCLATURE | NATIONAL STOCK NUMBER | TOOL NO. |
|---|---|---|---|---|
| T73 | 0 | Kit, Balancing | TDE | 7A050 |
| T74 | 0 | Wrench, Spanner | | 7FA18005-50 |
| T75 | 0 | Use T75.1, T75.2, T75.3, T75.4 | | 7HEL053 |
| T75.1 | 0 | Fixture, Support | 4920-00-708-3113 | 2532 |
| T75.2 | 0 | Bushing | 4920-00-868-8441 | 2533 |
| T75.3 | 0 | Bushing | 4920-00-708-3115 | 2529 |
| T75.4 | 0 | Arbor | 4920-00-708-3084 | 2516 |
| T76 | 0 | Use T76.1 and T76.2 | | 7HEL054 |
| T76.1 | 0 | Sleeve, Rotor Hub | 4920-00-708-3089 | 2467 |
| T76.2 | 0 | Fixture, Rotor Hub | 4920-00-708-3063 | 2337 |
| T77 | F | Tool Kit, Blade Bal | 4920-00-856-8214 | 7HEL061 |
| T78 | 0 | Adapter, Bal | 4920-00-937-9418 | 7HEL065 |
| T78 | 0 | Adapter, Bal | replaced by<br>4920-00-168-9797 | AA4920-8503 |
| T78.1 | 0 | Clevis Assy, Lifting | | 204-011-178-1 |
| T78.2 | 0 | Adapter, Bal | 4920-00-924-5708 | 7HEL066 |
| T79 | 0 | Spacer | | 2201 |
| T80 | 0 | Wheel, Hand | | 2215 |
| T81 | 0 | Arbor, Balancing | | 2259 |
| T82 | | Fixture, Rotor Blade | SKO | 2337 |
| T83 | F | Sleeve, Rotor Hub | 4920-00-708-3089 | 2467 |
| T84 | | C/O 7HEL061 and 7HEL066 | | 2486 |
| T85 | 0 | Plate, Blade | SKO | 2586 |
| T86 | 0 | Adapter C/O 7HEL061 | 4920-00-536-8218 | 2588 |

| TOOL OR TEST EQUIPMENT REFERENCE CODE | MAINTENANCE CATEGORY | NOMENCLATURE | NATIONAL STOCK NUMBER | TOOL NO. |
|---|---|---|---|---|
| T86.1 | 0 | Torque Fixture | | 205-076-099-2 |
| T87 | 0 | Reamer | | 27872-2 & 11 |
| T88 | 0 | Hydraulic Test Stand | TDE | D-5A |
| T89 | | Fixture, Centering | 4920-00-176-4258 | 205-200-005 1AAT-1 |
| T90 | | Fixture Locating and Drilling | 4920-00-159-8680 | 71SAVAE-D 0009 |
| T91 | | Thermometer Tester Electric Field Type | | NA-2 |
| T92 | | Socket | | SWE126377 |
| T93 | | Anchor Plate | | SWE124387 |
| T94 | | Torque Multiplier | | SWE103 |
| T95 | | Ratchet Adapter | | SWE67 |
| T96 | 0 | Work Handle | SKO | SWE63 |
| T97 | | Torque Wrench | | SWE54 |
| T98 | 0 | Propeller Protractor | 5520-00-212-8747 | 36D2844 |
| T99.1 | F | Tool Kit, Bearing Staking | 5180-00-091-8678 | T101873 |
| T99.2 | F | Test Stand Acft. Gen. | 4920-00-697-9969 | 7199 |
| 100 | 0 | Tool Set, AVUM, Set No. 1 | 4920-00-159-8727 | |
| 101 | 0 | Tool Set, AVUM, Set No. 2 | 4920-00-567-0476 | |
| 102 | 0 | Tool Kit, Aircraft Mechanics, General | 5180-00-323-4676 | |
| 103 | 0 | Tool Kit, Airframe Repairmans | 5180-00-323-4876 | |
| 104 | 0 | Tool Kit, Hydraulic Repairmans | 5180-00-323-4891 | |

| TOOL OR TEST EQUIPMENT REFERENCE CODE | MAINTENANCE CATEGORY | NOMENCLATURE | NATIONAL STOCK NUMBER | TOOL NO. |
|---|---|---|---|---|
| 106 | O | Tool Kit, Instrument Repairmans | 5180-00-323-4913 | |
| 107 | O | Tool Kit, Electrical Repairmans | 5180-00-323-4915 | |
| 108 | O | Tool Kit, Eng Repairmans | 5180-00-323-4944 | |
| 109 | O | Tool Kit, Power Train | 5180-00-003-5267 | |
| 110 | F | Shop Set, AVIM, Electrical-Instrument | 4920-00-165-1453 | |
| 111 | F | Shop Set, AVIM, Hydraulic | 4920-00-165-1454 | |
| 112 | F | Shop Set, AVIM, Machine Shop | 4920-00-405-9279 | |
| 113 | F | Shop Set, AVIM, Power Train | 4920-00-001-4132 | |
| 114 | F | Shop Set, AVIM, Propeller Suppl | 4920-00-224-3681 | |
| 115 | F | Shop Set, AVIM, Recip Eng, Suppl | 4920-00-464-0222 | |
| 116 | F | Shop Set, AVIM, Rotor Shop | 4920-00-405-9270 | |
| 117 | F | Shop Set, AVIM, Sheet Metal | 4920-00-166-5505 | |
| 118 | F | Shop Set, AVIM, Tool Crib | 4920-00-472-4183 | |
| 119 | F | Shop Set, AVIM, Turbine Engine | 4920-00-224-3684 | |
| 120 | F | Shop Set, AVIM, Welding | 4920-00-163-5093 | |
| 121 | F | Scales Set, Aircraft Weighing | 6670-00-148-9395 | |

## SECTION IV

## REMARKS

| REFERENCE CODE | REMARK |
|---|---|
| A. | Limited to Airframe Repairman Tool Kit and Portable Hand Tools. |
| B. | Not including build-up. |
| C. | Limited to Epoxy Minor Repair. |
| D. | Limited to Nicks and Scratches. |
| E. | Provided Replacement Fixtures/Tools are utilized and personnel have been trained in proper usage of these fixtures. |
| F. | Not requiring Jigs and Fixtures. |
| G. | **Refer to TM 55-2840-229-23.** |
| H. | Mets Stand. |
| I. | Limited to Dust Boot or Shield. |
| J. | Limited to Replacement of Packings. |
| K. | Balance |
| L. | Track |
| M. | Limited to Replacement of External Components and External Surface Repair only. |
| N. | Timing |
| O. | Refer to TM 11-6140-203-14-2. |
| P. | Based on Distribution of Generator Test Stand. |
| Q. | Troubleshooting System |
| R. | Refer to TM 11-1520-210-20, contains Maintenance Instructions for Avionics. |
| S. | Refer to TM 9-1005-243-12. |
| T. | Refer to TM 9-1345-201-10-1. |
| U. | Refer to TM 9-1005-262-14. |
| V. | Refer to TM 9-1005-262-15. |
| W. | By Station Medical Supply Office. |

| REFERENCE CODE | REMARK |
|---|---|
| X. | Should be recharged by authorized personnel. |
| Y. | Excluding the Replacement of Sleeves. UH-1B/M |
| Z. | Limited to Replacement of Rod End Bearing. |
| AA. | Refer to TM 9-1340-223-34. |
| AB. | Refer to TM 9-1010-207-12 and TM 9-1010-207-34. |
| AC. | Refer to TM 9-1005-243-12. |
| AD. | Refer to TM 9-1400-461-20 and TM 9-1400-461-35. |
| AE. | Refer to TM 9-1090-201-12. |
| AF. | Refer to TM 3-6665-267-12 and TM 3-6665-267-35. |
| AG. | Refer to TM 55-1500-204-25/1. |
| AH. | Welding. |
| AI. | Bulb Replacement only. |
| AJ. | Not used. |
| AK. | Restricted to AVUM units with 10 or more aircraft. Use extreme care in removal and/or repair. |
| AL. | If electronic test is required, accomplish with AVIM support. |
| AN. | Restricted to Non-Divisional Repair. |

# APPENDIX C

# AIRCRAFT INVENTORY MASTER GUIDE

## C-1. INTRODUCTION

**C-2. Scope.** Appendix C lists those items of installed or loose equipment required by and authorized for using organizations to accomplish their primary or alternate mission. This list will serve to standardize present inventory procedures, using the inventory master guide to determine the inventoriable items of installed and loose equipment. Insofar as possible, items of equipment are listed in the sequence of their physical location within the aircraft area.

**C-3. Changes to Inventory.** Aircraft inventory is subject to change as a result of authorized changes (MWO's), addition or deletions of property for special missions requirements; therefore, the selection of items of inventory from the inventory master guide may or may not provide a complete inventory list. When it is known that the master guide does not provide a complete inventory list, it will be necessary to research authorized changes (MWO's) and local command directives in order to compile an accurate and exact inventory list.

**C-4. Inventory Forms and Records.** Refer to TM 38-750 for applicable forms and records.

## C-5. REQUIREMENTS.

**C-6. Security.** It is desired that inventory records be unclassified. Therefore when equipment bearing a security classification or the installation of unclassified equipment is of a confidential or secret nature accomplishment of the classification will be in accordance with security regulations.

**C-7. Inventoriable Items.** The selection of inventoriable items is without regard to the agency, governmental or contractual, furnishing the items.

**a.** Items to be listed are:

**(1)** Items essential to the execution of the designated mission of the aircraft, such as electronic, photographic, armament, special mission instruments, and safety and comfort equipment.

**(2)** Loose equipment delivered with the aircraft and items subject to pilferage or readily converted to personal use.

**(3)** Modification kits which are issued or distributed to using organizations for installation and which are not immediately placed in work will be recorded on the affected aircraft's DA Form 2408-17 (Aircraft Inventory Record) and identified as loose equipment until modification is completed.

**(4)** Equipment required for operation in special environment.

**b.** Items to be excluded:

**(1)** Nonaccountable items coded as expendable in the applicable stock lists.

**(2)** Personal issue or furnished on unit allowance or other authority.

**(3)** Items or components considered as basic or integral parts of the aircraft or basic aircraft such as engines, propellers, wheels and standard instruments.

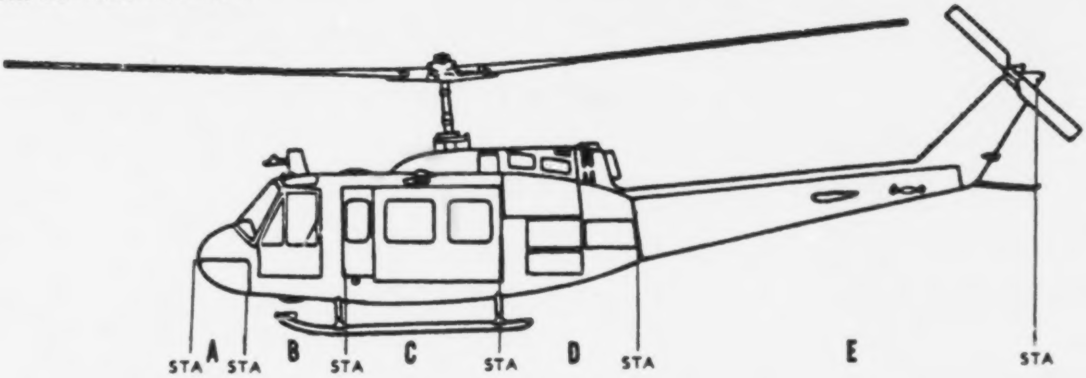
**(4)** Equipment publications, check lists, and aircraft forms.

**C-8. Periods of Inventory.** Inventoriable items will be checked against the Aircraft Inventory Record (DA Form 2408-17) at the following periods:

**a.** Upon receipt of the aircraft.

**b.** Prior to transfer of the aircraft to another organization.

**c.** Upon placing aircraft in storage and upon removing from storage. Aircraft need not be inventoried while in storage.



A - Nose Compartment
FS Sta 7.6 to Sta 23.0

B - Pilots Compartment
FS Sta 23.0 to Sta 74.0

C - Cargo Compartment
FS Sta 74.0 to Sta 166.0

D - Aft Fuselage Compartment
FS Sta 166.0 to Sta 241.0

E - Tail Boom
FS Sta 241.0 to Sta *5.08

F - Exterior
FS Sta 7.6 to Sta *5.08

*Indicates Vertical Fin Station

| NOMENCLATURE | Aircraft Series and Quantity of Items Normally Installed | | | | Remarks |
|---|---|---|---|---|---|
| | UH-1H | UH-1V | Phase 1B. EH-1H | EH-1X | |
| SECTION A - NOSE COMPARTMENT | | | | | |
| RT-1115/APN-209 Receiver-Transmitter, Height Indicator | | 1 | | | |
| RT-742()ARC-51 BX Receiver Transmitter | 1 | 1 | 1 | | |
| AN/ARN 59 ADF Set | 1 | | | | |
| RT-348/ARC 54 FM Tranceiver | 1 | 1 | | | |
| RT-823/ARC-131 FM Tranceiver | 1 | 1 | 1 | | |
| BB-433/A Battery | 1 | 1 | 1 | 1 | If aft, see Section D |
| R-1388/ARN-82 Receiver | 1 | 1 | 1 | | |
| AM-3209/ASN Servoamplifier | 1 | 1 | 1 | 1 | |
| MD-1 Displacement Gyro | 1 | 1 | 1 | 1 | |
| PU 543/A Inverter | 2 | 2 | 2 | 1 | |
| R-1838/APR-39(V) Receiver | 1 | 1 | 1 | 1 | |
| R-2097/APR-44(V) Receiver | | | 1 | 1 | |
| R-2098/APR-44(V) Receiver | | | 1 | 1 | |
| SECTION B - PILOTS COMPARTMENT | | | | | |
| ID-1917/APN-209 Height Indicator | | 1 | | | |
| ID-998/ASN Indicator, RMI | 1 | 1 | 1 | 1 | |
| IND-A5-UH-1 Indicator, Attitude | 1 | 1 | 1 | | |
| ID 1150/APR-39 Indicator | 1 | 1 | 1 | 1 | |
| First Aid Kit | 2 | 2 | 2 | 4 | |
| C-1611/AIC Intercom | 2 | | 2 | 2 | |
| C-6533/ARC Intercom | | 2 | | | |

*Figure C-1. Inventory Items List Component Diagram (Sheet 1 of 7).*

| NOMENCLATURE | Aircraft Series and Quantity of Items Normally Installed<br>UH-1H | <br>UH-1V | <br>Phase 1B. EH-1H | <br>EH-1X | Remarks |
|---|---|---|---|---|---|
| SECTION B - PILOTS COMPARTMENT (Con't) | | | | | |
| Type A-13A Clock | 1 | 1 | 1 | 1 | |
| Compass, Pilot Standby | 1 | 1 | 1 | 1 | |
| Aircraft Manufactures Data Plate | 1 | 1 | 1 | 1 | |
| Pilot Seat and Back Cushions | 1 | 1 | 1 | 1 | |
| Copilot Seat and Back Cushions | 1 | 1 | 1 | 1 | |
| Pilot Seat Belt and Shoulder Harness | 1 | 1 | 1 | 1 | |
| Copilot Seat Belt and Shoulder Harness | 1 | 1 | 1 | 1 | |
| Fire Extinguisher: Vaporizing Liquid Type | 1 | 1 | 1 | 1 | |
| AN/APN-209 Radar Altimeter | | 1 | | | |
| MD-736 Discriminator | 4 | 4 | 4 | 4 | |
| 14602-1J-F1 Indicator, Attitude | 1 | 1 | 1 | | |
| ID-250/ARN Indicator, Course | 1 | 1 | 1 | 1 | |
| C-6280/APX72 Control | 1 | 1 | 1 | 1 | |
| C-9326/APR-39 Control | 1 | 1 | 1 | 1 | |
| C-3835/ARC-54 Control | 1 | 1 | | | |
| C-7088/ARC-131 Control | 1 | 1 | 1 | | |
| C-6287/ARC-51BX Control | 1 | 1 | 1 | | |
| AN/ARC-115 VHF-AM Radio Set | 1 | 1 | | 1 | |
| 178061-3 Seat Armored, Pilot | 1 | 1 | 1 | 1 | |
| 178062-3 Seat Armored, Copilot | 1 | 1 | 1 | 1 | |
| Panel, Master Caution | 1 | 1 | 1 | 1 | |
| Ignition Keys | 2 | 2 | 2 | 2 | |
| Padlock with Key | 1 | 1 | 1 | 1 | |
| AAU-32/A AIMS Altimeter | 1 | 1 | 1 | 1 | |
| RT-1115/APN-209 Transceiver | | | | 1 | |
| ID-1345A/APN-171 Indicator, Radar Altimeter | | | 1 | | |
| IP-1156/APR-39 Indicator, Radar Warning | | | 1 | 1 | |
| AN/ARC-114 Transceiver | | | | 1 | |
| ID-1579/ASN-86 Control Indicator | | | | 1 | |
| C-8968/ARN-103 Control | | | | 1 | |
| C-8157/ARC Control, Panel Voice Security | 1 | 1 | 1 | | |
| AAU-31/A Altimeter | 1 | 1 | 1 | 1 | |
| C-7197/ARC-I34 Control | 1 | 1 | 1 | | |
| C-6873/ARN-82 Control | 1 | 1 | 1 | | |
| C-G899/ARN-83 Control | 1 | 1 | 1 | 1 | |
| C-10048/ARN-123 Control | | | | 1 | |
| C-10387/APR-44 Control | | | 1 | 1 | |
| ID 1347/ARN-82 Indicator | | | 1 | 1 | |
| J8 Attitude Indicator | | | | | |
| M-130 Dispenser Control | | | 1 | 1 | |
| M-130 Flare Control | | | 1 | 1 | |
| C-10547/ARC-164 Control | | | | 1 | |
| A005G Attitude Indicator | | | | | |
| | | | | | |
| SECTION C - CARGO COMPARTMENT | | | | | |
| First Aid Kits | | 2 | 2 | | |
| Blood Bottle Hangers | 6 | 6 | | | |
| Aft Bulkhead Tiedown Fittings | 16 | 16 | | | |
| Cargo Restraint Device | 1 | 1 | | | |
| C1611/AIC Intercom | 2 | | | | |

| NOMENCLATURE | Aircraft Series and Quantity of Items Normally Installed | | | | Remarks |
|---|---|---|---|---|---|
| | UH-1H | UH-1V | Phase 1B · EH-1H | EH-1X | |
| SECTION C - CARGO COMPARTMENT (Con't) | | | | | |
| Internal Rescue Hoist Fwd Location | 1 | 1 | | | |
| Passenger Seat 1-Man, Right Hand | 1 | 1 | | | |
| Passenger Seat 1-Man, Left Hand | 1 | 1 | | | |
| Passenger Seat Kit, 4 Man | 1 | 1 | | | |
| Passenger Seat Kit, 3 Man | 1 | 1 | | | |
| Passenger Seat, 2 Man with Back, Right | 1 | 1 | | | |
| Passenger Seat, 2 Man with Back, Left | 1 | 1 | | | |
| Passenger Seat, 1 Man, Bulkhead Mounted | 1 | 1 | | | |
| Passenger Seat, 2 Man, Beam Mounted, Right | 1 | 1 | | | |
| Passenger Seat, 2 Man, Beam Mounted, Left | 1 | 1 | | | |
| G-8385-1 Landing Light | 1 | 1 | 1 | 1 | |
| External Fuel Provisions Kit | 1 | 1 | | | |
| Litter Kit | 1 | 1 | | | |
| Internal Rescue Hoist, Aft Location | 1 | 1 | | | |
| Cargo Tiedown Kit | 1 | 1 | | | |
| Suspension Assembly Cargo | 1 | 1 | | | |
| AUX Fuel Tank Installation, 200 Gallon | 1 | 1 | | | |
| AUX Fuel Tank Installation, 120 Gallon | 1 | 1 | | | |
| Internal Rescue Hoist Provisions Kit | 1 | 1 | | | |
| C 6533/ARC Intercom | | 2 | | | |
| Luggage Compartment Net | 1 | 1 | | | |
| Blackout Curtain, Cockpit | 1 | 1 | 1 | 1 | |
| Blackout Curtain, Window | 4 | 4 | 4 | 4 | |
| Utility Light | | | | | |
| Fire Extinguisher | | | | 1 | |
| Case Assy Rifle Mount | | | | 1 | |
| PP-7472/TLQ-17A(V) Power Supply | | | 1 | | |
| T-1386/TLQ-17A(V) Transmitter | | | 1 | | |
| OJ-472/ARQ-33A Console Group Position 1, Consisting of: | | | | | |
| PP-6875A/UNH-16A Power Supply | | | 1 | | |
| RD-385A/UNH-16A Recorder-Reproducer | | | 1 | | |
| R-2107/TLQ-17A Receiver | | | 1 | | |
| C-8882/ARQ-33 Control | | | 1 | | |
| C-1611D/AIC Control Intercom | | | 1 | | |
| A-13A2 Clock | | | 1 | | |
| 5215-5 Seat Operator | | | 1 | | |
| Shoulder Harness | | | 1 | | |
| Seat Belt | | | 1 | | |
| OJ-224/ARQ-33 Console Group Position 2, Consisting of: | | | | | |
| C-8883/ARQ Control | | | 1 | | |
| C-1611D/AIC Control Intercom | | | 1 | | |
| C-7088/ARC Control | | | 1 | | |
| ID-1825/ARQ-33 Indicator | | | 1 | | |
| PP-6875A/UNH-16A Power Supply | | | 1 | | |
| RD-385A/UNH-16A Recorder-Reproducer | | | 1 | | |
| TN-496/UR Tuning Unit | | | 1 | | |
| TN-456/GLR-9(V) Tuning Unit | | | 1 | | |
| IP-779()/GLR-9(V) Indicator | | | 1 | | |

| NOMENCLATURE | Aircraft Series and Quantity of Items Normally Installed | | | | Remarks |
|---|---|---|---|---|---|
| | UH-1H | UH-1V | Phase 1B , EH-1H | EH-1X | |
| SECTION C - CARGO COMPARTMENT (Con't) | | | | | |
| ID-2095/GLR-9(V) Indicator | | | 1 | | |
| TN-497/UR Tuning Unit | | | 1 | | |
| TN-575/GLR-9(V) Tuning Unit | | | 1 | | |
| R-1328(V)/GLR-9(V) Receiver | | | 1 | | |
| 5215-5 Seat, Operator | | | 1 | | |
| Shoulder Harness | | | 1 | | |
| Shoulder Harness | | | 1 | | |
| Seat Belt | | | 1 | | |
| CY-7739/GLR-9 Cabinet | | | 1 | | |
| MX-8123/ASN-86 Gyro Stabilizer | | | | 1 | |
| CP-941/ASN-86 Computer Navigation | | | | 1 | |
| CV-2924(P)/ARN-103(V) Converter | | | | 1 | |
| RT-1057/ARN-103(V) Converter | | | | 1 | |
| Seat Mission Operator | | | | 1 | |
| Seat Belt | | | | 1 | |
| Shoulder Harness | | | | 1 | |
| AN/ALQ-151 Mission Equipment Consisting of the following: | | | | | |
| R-2170/TLQ-17A Receiver | | | | 1 | |
| PP-7472/TLQ-17A Power Supply | | | | 1 | |
| T-1388/TLQ-17A Transmitter | | | | 1 | |
| C-10144/ALQ-151 DF Control | | | | 1 | |
| C-10026/USQ Control | | | | 1 | |
| C-10145/ALQ-151 Control | | | | 1 | |
| UYQ-10 Plasma Display | | | | 1 | |
| IP-1251 Indicater, Pan | | | | 1 | |
| UHY-1 Recorder-Reproducer | | | | 1 | |
| PP-6875A/UNH-16A Power Supply | | | | 1 | |
| RD-385A/UNH-16A Recorder-Reproducer | | | | 1 | |
| C-10050/USQ Control Indicator | | | | 1 | |
| TT-580(V)/U Teleprinter | | | | 1 | |
| RT-1167/ARC-164 Receiver-Transmitter | | | | 2 | |
| TSEC/KY-58 Voice Security | | | | 1 | |
| TSEC/KY-45 Voice Security | | | | 1 | |
| MX-9855 DF Interface | | | | 1 | |
| MX-9781 Processor | | | | 1 | |
| UYK-19 Computer | | | | 1 | |
| F-1429/ALQ-151 Filter | | | | 2 | |
| MX-9780 RF Processor | | | | 1 | |
| C-10027/USQ Control Indicator | | | | 1 | |
| C-10025/USQ Control Indicator | | | | 1 | |
| R-2017/U Receiver | | | | 1 | |
| PP-7292/USQ Power Supply | | | | 1 | |
| PP-7293/USQ Power Supply | | | | 1 | |
| PP-7294/USQ Power Supply | | | | 1 | |
| KY-836/ALQ-151 Keyboard | | | | 1 | |
| C-1611D/AIC Control Intercom | | | | 1 | |
| C-11002/USQ Control, DF | | | | 1 | |
| ID-2090/ALQ-151 Indicator | | | | 1 | |

| | Aircraft Series and Quantity of Items Normally Installed | | | | |
|---|---|---|---|---|---|
| NOMENCLATURE | UH-1H | UH-1V | Phase 1B EH-1H | EH-1X | Remarks |
| SECTION C - CARGO COMPARTMENT (Con't) | | | | | |
| MX-10250/USQ Processor, RF | | | | 1 | |
| MX-10251/USQ Processor, Com. | | | | 1 | |
| SECTION D - AFT FUSELAGE COMPARTMENT | | | | | |
| AN/ARN-83 ADF Receiver | 1 | 1 | 1 | 1 | |
| AN/ARN-30 OMNI Range Receiver | 1 | 1 | | | |
| Luggage Compartment Net | 1 | 1 | | | |
| Heater Kit, 100,000 BTU | 1 | 1 | | | |
| Rotor Blade Anti-Icing Kit | 1 | 1 | | | |
| AN/ARN-134 VHF | 1 | 1 | 1 | | |
| RT-859/APX-72 Transponder | 1 | 1 | 1 | 1 | |
| 3949A/U Mount, 1A/T SEC Computer | 1 | 1 | 1 | 1 | |
| TS 1843/APX Test Set | 1 | 1 | 1 | 1 | |
| CN-998/ASN43 Gyro Directional | 1 | 1 | 1 | 1 | |
| Winterization Kit 205-766-028 | 1 | 1 | | | |
| MIL-R-6809 Regulator, Voltage | 2 | 2 | 1 | 1 | |
| BB-433/A Battery (If forward see section A) | 1 | 1 | 1 | | |
| RT-823/ARC-131 FM Receiver-Transmitter | | | 1 | | |
| CM-440/APR-39(V) Comparator | | | | | |
| RE-1102/ARQ-33 Power Relay | | | 1 | | |
| RE-1104/ARQ-33 Power Relay' | | | 1 | | |
| PU-543/A Meter Generator | | | 1 | | |
| PU-545/A Meter Generator | | | 1 | | |
| M-130 Electric Module Assembly | | | 1 | 1 | |
| M-130 Dispenser with Bracket, Left | | | 1 | 1 | |
| M-130 Dispenser with Bracket, Right | | | 1 | 1 | |
| M-130 Payload Module Assy | | | | 1 | |
| R-2023/ARN-123 Receiver | | | | 1 | |
| SECTION E, Tail Boom Assembly | | | | | |
| RT-804/APN-171(V) Receiver Transmitter | | | 1 | | |
| F-1263/APN-171(V) Filter | | | 1 | | |
| R-1838/APR-39(V) Receiver | | | 1 | 1 | |
| DL1326M31 Linear Actuator | | | 1 | | |
| CU-1658A Coupler, Antenna | 1 | 1 | | | |
| CU-942B/ARC-54 Coupler | 1 | 1 | | | |
| CN-405/ASN Compensator | | | 1 | 1 | |
| T-611/ASN Transmitter | | | 1 | 1 | |
| SECTION F, Exterior | | | | | |
| Rear View Mirror | 1 | 1 | 1 | 1 | |
| Fittings, Jack | 4 | 4 | 4 | 4 | |
| Searchlight | 1 | 1 | 1 | 1 | |
| Main Rotor Blade Tiedown Rig | 1 | 1 | 1 | 1 | |
| Tail Rotor Blade Tiedown Rig | 1 | 1 | 1 | 1 | |

# APPENDIX D

## ILLUSTRATED FIELD MANUFACTURE ITEM LIST

This appendix includes complete instructions, including bills of material, for field manufacture (fabrication) of all items listed in TM 55-1520-210-23P, Aviation Unit and Intermediate Repair Parts and Special Tools List bearing MO or MF source code. The part number index lists all items in part number order with a cross reference to the figure in which the item appears. All materials necessary for manufacture of all items are listed by National Stock Number in the bill of material for the item.

| PART NUMBER | FIGURE NO. |
|---|---|
| AA8621-2D12 | D-351 |
| AN257-2-650 | D-15 |
| AN6544 | D-6 |
| AN6545 | D-7 |
| AN6546 | D-9 |
| AN6910 | D-10 |
| AN6915 | D-14 |
| AN743-7 | D-4 |
| AN743-12 | D-4 |
| AN743-13 | D-4 |
| AN8031-8-183 | D-5 |
| AN9116-2 | D-16 |
| BL6150 | D-29 |
| BL8359 | D-30 |
| BL8379 | D-229 |
| BL8453 | D-228 |
| BL8456 | D-227 |
| BL8458 | D-35 |
| BL8515 | D-230 |
| BYRF572 | D-52 |
| B56C21 | D-56 |
| B79C65 | D-55 |
| CSC-536-3 | D-18 |
| ES-B-220309 | D-391 |
| ES-B-220311 | D-390 |
| ES-B-220316 | D-396 |
| ES-B-220354 | D-388 |
| ES-B-220355 | D-387 |
| ES-B-221427 | D-386 |
| ES-B-221566 | D-385 |
| ES-B-221712 | D-384 |
| ES-B-221720 | D-375 |
| ES-C-213928 | D-383 |
| ES-C-221355 | D-372 |
| ES-C-221440 | D-382 |
| ES-C-221569 | D-381 |
| ES-C-221697 | D-374 |
| ES-C-221709 | D-380 |
| ES-C-221739 | D-379 |
| ES-D-221175 | D-397 |
| ES-D-221672 | D-389 |
| ES-F-221565 | D-377 |
| ES-F-221752 | D-378 |
| E1112-32-14 | D-225 |
| HM-1 | D-394 |
| MS18029-1S11 | D-242 |
| MS18029-1S10 | D-242 |
| MS18029-1S14 | D-242 |
| MS18029-1S15 | D-242 |
| MS20253-2-225 | D-46 |
| MS20253-2-275 | D-46 |
| MS20253-2-600 | D-46 |
| MS20253-2-2450 | D-46 |
| MS20253-2-7950 | D-46 |
| MS20253-2-1035 | D-46 |

| PART NUMBER | FIGURE NO. |
|---|---|
| MS20253P2-275 | D-46 |
| MS20253P2-387 | D-46 |
| MS20253P2-538 | D-22 |
| MS20253P2-2372 | D-46 |
| MS25083-2BB5 | D-303 |
| MS25083-2BB6 | D-303 |
| MS27212-1-3 | D-37 |
| MS27212-1-9 | D-37 |
| MS27212-1-10 | D-37 |
| MS27212-1-12 | D-37 |
| MS27212-1-14 | D-37 |
| MS27212-1-15 | D-37 |
| MS27253-2 | D-343 |
| MS28741 | D-41 |
| MS8000 | D-41 |
| MS8001 | D-41 |
| MS87028 Thru | D-41 |
| MS87032 | D-41 |
| NAS1455-00-3C | D-19 |
| NAS1455-00-5 | D-19 |
| NAS1455-A-00-4 | D-19 |
| NAS1455-1A2-5 | D-19 |
| NAS1455B00-5 | D-19 |
| NAS42DD4-16 | D-2 |
| NAS42DD6-8 | D-2 |
| NAS43-3-8 | D-2 |
| NAS43-3-24 | D-2 |
| NAS43-3-42 | D-2 |
| NAS43-3-48 | D-2 |
| NAS43-4-12 | D-2 |
| NAS43-4-14 | D-2 |
| NAS43-4-44 | D-2 |
| NAS43-4-108 | D-2 |
| NAS43-5-36 | D-2 |
| NAS43-5-48 | D-2 |
| NAS43-6-12 | D-2 |
| NAS43-6-30 | D-2 |
| NAS43DD1-7 | D-2 |
| NAS43DD1-16 | D-2 |
| NAS43DD3-9 | D-2 |
| NAS43DD3-10 | D-2 |
| NAS43DD3-12 | D-2 |
| NAS43DD3-19 | D-2 |
| NAS43DD3-21 | D-2 |
| NAS43DD3-22 | D-2 |
| NAS43DD3-23 | D-2 |
| NAS43DD3-28 | D-2 |
| NAS43DD3-30 | D-2 |
| NAS43DD3-31 | D-2 |
| NAS43DD3-36 | D-2 |
| NAS43DD3-38 | D-2 |
| NAS43DD3-44 | D-2 |
| NAS43DD3-45 | D-2 |
| NAS43DD3-48 | D-2 |

| PART NUMBER | FIGURE NO. |
|---|---|
| NAS43DD3-50 | D-2 |
| NAS43DD3-53 | D-2 |
| NAS43DD3-54 | D-2 |
| NAS43DD3-65 | D-2 |
| NAS43DD3-67 | D-2 |
| NAS43DD3-70 | D-2 |
| NAS43DD3-74 | D-2 |
| NAS43DD3-76 | D-2 |
| NAS43DD3-80 | D-2 |
| NAS43DD3-88 | D-2 |
| NAS43DD3-92 | D-2 |
| NAS43DD3-96 | D-2 |
| NAS43DD3-98 | D-2 |
| NAS43DD3-112 | D-2 |
| NAS43DD4-10 | D-2 |
| NAS43DD4-16 | D-2 |
| NAS43DD4-23 | D-2 |
| NAS43DD4-28 | D-2 |
| NAS43DD4-38 | D-2 |
| NAS43DD4-60 | D-2 |
| NAS43DD4-61 | D-2 |
| NAS43DD4-71 | D-2 |
| NAS43DD5-36 | D-2 |
| NAS43DD10-14 | D-2 |
| NAS43HT1-7 | D-2 |
| NAS43HT3-12 | D-2 |
| NAS43HT3-82 | D-2 |
| NAS43HT4-7 | D-2 |
| NAS43HT4-28 | D-2 |
| NAS521-16-12 | D-2 |
| NYLC3 | D-57 |
| RB8515-18-3 | D-2 |
| SP1152-2 | D-60 |
| SP1699-1 | D-61 |
| SP1705-1 | D-62 |
| SP1706-1 | D-63 |
| SP1707-1 | D-64 |
| SP1707-2 | D-64 |
| SP1709-2 | D-65 |
| SP1710-1 | D-66 |
| SP1715-1 | D-67 |
| SP3184-4 | D-68 |
| SP3184-5 | D-68 |
| SP3184-6 | D-68 |
| SP401-1 | D-54 |
| SP401-2 | D-54 |
| SP469-1 | D-58 |
| SP469-2 | D-58 |
| SP516 | D-59 |
| S8168-44A0170 | D-2 |
| UH-1-1S0054-1 | D-135 |
| W20396 | D-20 |
| Y1152-1-6 | D-225 |
| Y1152-1-11 | D-225 |
| Y1159-2-3 | D-226 |

| PART NUMBER | FIGURE NO. |
|---|---|
| 100337 | D-224 |
| 110-0331 | D-71 |
| 110-119-1 | D-134 |
| 11021-1 | D-219 |
| 120-069-1 | D-233 |
| 120-067B020 | D-234 |
| 120-067B17 | D-234 |
| 130-005-5-2 | D-232 |
| 130-005-6-58 | D-232 |
| 130-005-7-4 | D-232 |
| 130-005-7-10 | D-232 |
| 130-005-7-50 | D-232 |
| 130-005-7C4 | D-232 |
| 130-005-8-4 | D-232 |
| 130-005-9-6 | D-232 |
| 1560-UH1-711-1 | D-363 |
| 1560-UH1-760 | D-350 |
| 1560-UH1-761 | D-359 |
| 1560-UH1-762-1 | D-360 |
| 1560-UH1-762-2 | D-19 |
| 1560-UH1-764 | D-361 |
| 1560-UH1-765 | D-362 |
| 1560-UH1-772-1 | D-353 |
| 1560-UH1-772-2 | D-353 |
| 1560-UH1-781 | D-355 |
| 1560-UH1-791 | D-356 |
| 1560-UH1-791 | D-373 |
| 1560-UH1-983-3 | D-354 |
| 1560-UH1-990-1 | D-357 |
| 1560-UH1-1023 | D-368 |
| 1560-UH1-1044 | D-367 |
| 178036-3 | D-176 |
| 178038-3 | D-176 |
| 178040-3 | D-176 |
| 178042-3 | D-176 |
| 178044-3 | D-176 |
| 178050-3 | D-176 |
| 178050-5 | D-176 |
| 178050-7 | D-176 |
| 178052-3 | D-176 |
| 178052-5 | D-176 |
| 178052-7 | D-176 |
| 178065-1 | D-220 |
| 1951-131-09 | D-395 |
| 20-032-1 | D-21 |
| 20-032-2 | D-21 |
| 20-032-3 | D-21 |
| 20-036-8-24 | D-69 |
| 204-001-222-1 | D-11 |
| 204-001-790-1 | D-81 |
| 204-001-849-1 | D-81 |
| 204-001-849-2 | D-81 |
| 204-010-780-1 | D-8 |
| 204-010-793-3 | D-8 |
| 204-010-794-1 | D-91 |

| PART NUMBER | FIGURE NO. |
|---|---|
| 204-011-059-1 | D-235 |
| 204-011-149-1 | D-72 |
| 204-011-458-1 | D-73 |
| 204-011-458-3 | D-73 |
| 204-011-458-5 | D-73 |
| 204-011-458-7 | D-73 |
| 204-011-461-1 | D-128 |
| 204-011-708-1 | D-8 |
| 204-011-708-3 | D-8 |
| 204-012-022-3 | D-236 |
| 204-012-110-1 | D-74 |
| 204-030-007-139 | D-24 |
| 204-030-010-1 | D-12 |
| 204-030-287-89 | D-352 |
| 204-030-289-91 | D-352 |
| 204-030-337-3 | D-13 |
| 204-030-458-4 | D-237 |
| 204-030-665-11 | D-241 |
| 204-030-800-443 | D-75 |
| 204-030-813-5 | D-76 |
| 204-030-813-2 | D-15 |
| 204-030-813-23 | D-15 |
| 204-030-813-25 | D-15 |
| 204-030-813-27 | D-15 |
| 204-030-829-15 | D-238 |
| 204-030-829-27 | D-238 |
| 204-030-832-7 | D-370 |
| 204-030-840-1 | D-15 |
| 204-030-840-3 | D-15 |
| 204-030-840-5 | D-15 |
| 204-030-853-73 | D-27 |
| 204-030-853-83 | D-27 |
| 204-030-853-93 | D-358 |
| 204-030-853-85 | D-27 |
| 204-030-853-97 | D-341 |
| 204-030-853-98 | D-341 |
| 204-030-853-99 | D-341 |
| 204-030-853-100 | D-341 |
| 204-030-853-111 | D-27 |
| 204-030-853-113 | D-27 |
| 204-030-853-115 | D-27 |
| 204-030-853-117 | D-27 |
| 204-030-853-133 | D-40 |
| 204-031-003-13 | D-77 |
| 204-031-003-14 | D-77 |
| 204-031-003-23 | D-78 |
| 204-031-136-17 | D-152 |
| 204-031-139-3 | D-79 |
| 204-031-251-1 | D-80 |
| 204-031-347-25 | D-352 |
| 204-040-153-13 | D-3 |
| 204-040-153-15 | D-3 |
| 204-040-153-25 | D-3 |

| PART NUMBER | FIGURE NO. |
|---|---|
| 204-040-155-11 | D-3 |
| 204-040-155-13 | D-3 |
| 204-040-155-15 | D-3 |
| 204-040-156-5 | D-3 |
| 204-040-215-27 | D-42 |
| 204-040-299-1 | D-17 |
| 204-040-306-9 | D-3 |
| 204-040-314-5 | D-3 |
| 204-040-353-11 | D-3 |
| 204-040-353-13 | D-3 |
| 204-040-353-15 | D-3 |
| 204-040-353-17 | D-3 |
| 204-040-355-11 | D-3 |
| 204-040-355-13 | D-3 |
| 204-040-355-15 | D-3 |
| 204-040-356-5 | D-3 |
| 204-040-419-7 | D-3 |
| 204-040-425-5 | D-3 |
| 204-040-513-11 | D-3 |
| 204-040-513-13 | D-3 |
| 204-040-671-1 | D-26 |
| 204-040-722-1 | D-42 |
| 204-040-723-1 | D-82 |
| 204-040-732-1 | D-82 |
| 204-040-749-1 | D-25 |
| 204-040-787-1 | D-83 |
| 204-040-848-1 | D-239 |
| 204-060-020-207 | D-25 |
| 204-060-031-15 | D-84 |
| 204-060-045-1 | D-1 |
| 204-060-056-1 | D-85 |
| 204-060-082-1 | D-42 |
| 204-060-098-1 | D-42 |
| 204-060-224-9 | D-240 |
| 204-060-816-33 | D-304 |
| 204-060-868-5 | D-345 |
| 204-070-048-7 | D-245 |
| 204-070-048-13 | D-246 |
| 204-070-110-3 | D-42 |
| 204-070-110-7 | D-42 |
| 204-070-110-65 | D-42 |
| 204-070-110-67 | D-42 |
| 204-070-110-71 | D-42 |
| 204-070-110-153 | D-42 |
| 204-070-110-155 | D-42 |
| 204-070-143-3 | D-23 |
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| 204-070-185-1 | D-87 |
| 204-070-230-1 | D-88 |
| 204-070-255-1 | D-89 |
| 204-070-255-2 | D-89 |
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| 204-070-798-1 | D-26 |
| 204-070-806-3 | D-247 |
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| 204-070-812-3 | D-26 |
| 204-070-818-1 | D-26 |
| 204-070-818-3 | D-26 |
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|---|---|
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| 204-072-083-1 | D-101 |
| 204-072-258-1 | D-251 |
| 204-072-258-3 | D-252 |
| 204-072-259-1 | D-253 |
| 204-072-265-1 | D-42 |
| 204-072-267-1 | D-42 |
| 204-072-268-1 | D-42 |
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| 204-075-264-1 | D-254 |
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| 205-030-007-111 | D-111 |
| 205-030-007-113 | D-112 |
| 205-030-007-131 | D-113 |
| 205-030-007-132 | D-113 |
| 205-030-007-133 | D-114 |
| 205-030-007-134 | D-114 |
| 205-030-007-155 | D-115 |
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| 205-030-029-25 | D-261 |
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| 205-060-587-1 | D-42 |
| 205-060-589-1 | D-42 |
| 205-060-590-1 | D-42 |
| 205-060-591-1 | D-42 |
| 205-060-592-1 | D-42 |
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| 205-060-695-1 | D-42 |
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| 205-061-610-1 | D-42 |
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| 205-061-653-1 | D-42 |
| 205-061-654-1 | D-42 |
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| 205-070-440-1 | D-42 |
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| 205-070-493-1 | D-193 |
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| 205-076-156-1 | D-42 |
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| 205-076-159-1 | D-42 |
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| 205-076-200-1 | D-42 |
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| 205-076-212-1 | D-42 |
| 205-076-213-1 | D-42 |
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| 205-076-251-1 | D-42 |
| 205-076-252-1 | D-42 |
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| 70-001B20F12Z3 | D-48 |
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| 70-004A12F27Z2 | D-48 |
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| 70-010-3240C484 | D-41.2 |
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| 85T4-4-34 | D-2 |
| 85T4-4-48 | D-2 |
| 85T4-4-50 | D-2 |
| 85T4-5-2 | D-2 |
| 85T4-5-15 | D-2 |
| 85T4-6-2 | D-2 |
| 85T4-6-4 | D-2 |
| 85T4-6-16 | D-2 |
| 85T4-7-2 | D-2 |
| 85T4-7-4 | D-2 |
| 85T4-8-1 | D-2 |
| 85T4-8-2 | D-2 |
| 85T4-8-6 | D-2 |
| 85T4-9-3 | D-2 |
| 85T4-10-1 | D-2 |
| 85T4-10-2 | D-2 |
| 85T4-10-12 | D-2 |
| 85T4-11-3 | D-2 |
| 85T4-11-4 | D-2 |
| 85T4-12-1 | D-2 |
| 85T4-12-2 | D-2 |
| 85T4-14-1 | D-2 |
| 85T4-16-6 | D-2 |
| 85T4-375-2 | D-2 |
| 85T4-375-3 | D-2 |
| 85T4-375-8 | D-2 |
| 85T4-375-12 | D-2 |
| 85T4-375-46 | D-2 |
| 85T4-375-52 | D-2 |
| 85T4-500-2 | D-2 |
| 85T4-500-4 | D-2 |
| 85T4-500-6 | D-2 |
| 85T4-625-2 | D-2 |
| 85T4-875-56 | D-2 |
| 85T4-1000-8 | D-2 |
| 85T4-1250-48 | D-2 |
| 8531-804 | D-364 |
| 8531-834 | D-364 |
| 90-045-5 | D-243 |
| 90-047-1 | D-244 |
| 9524491 | D-222 |
| 99C29 | D-70 |
| 99C30 | D-42 |

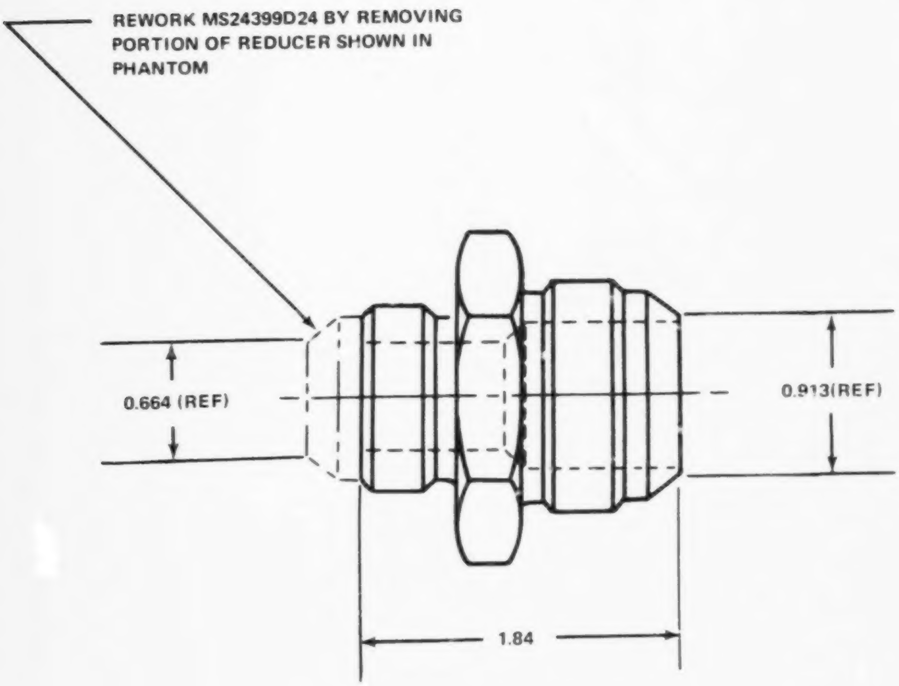
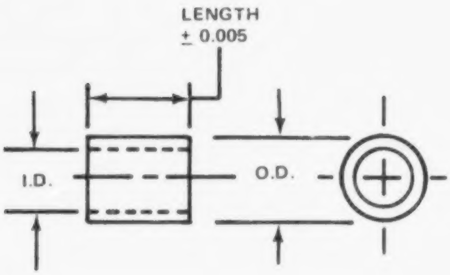

REWORK MS24399D24 BY REMOVING PORTION OF REDUCER SHOWN IN PHANTOM
0.664 (REF)
0.913(REF)
1.84

Figure D-1. Part Number 204-060-045-1, FITTING, Reducer Engine Oil Inlet
Fabricate from: NSN 4730-00-684-7446



| PART NUMBER | NOMENCLATURE | FABRICATE FROM NSN | ID | OD | LG |
|---|---|---|---|---|---|
| NAS42DD4-16 | SPACER, RIVET | 5340-00-631-3905 | 0.127 | 0.260 | 0.250 |
| NAS42DD6-8 | SPACER, SLEEVE | 5340-00-631-3904 | 0.190 | 0.385 | 0.125 |
| NAS43-3-8 | SPACER, SCREW AND BOLT | 5340-00-826-6257 | 0.194 | 0.322 | 0.125 |
| NAS43-3-24 | SPACER, SCREW AND BOLT | 5340-00-826-6257 | 0.194 | 0.322 | 0.375 |
| NAS43-3-42 | SPACER, SCREW AND BOLT | 5340-00-826-6257 | 0.194 | 0.322 | 0.656 |
| NAS43-3-48 | SPACER, SCREW AND BOLT | 5340-00-826-6257 | 0.194 | 0.322 | 0.750 |
| NAS43-4-12 | SPACER, SCREW AND BOLT | 5340-00-632-1254 | 0.256 | 0.365 | 0.187 |
| NAS43-4-14 | SPACER, SCREW AND BOLT | 5340-00-632-1254 | 0.256 | 0.365 | 0.218 |
| NAS43-4-44 | SPACER, SCREW AND BOLT | 9535-00-167-2151 | 0.256 | 0.365 | 0.687 |
| NAD43-4-108 | SPACER, SCREW AND BOLT | 5340-00-632-1254 | 0.256 | 0.365 | 1.687 |
| NAS43-5-36 | SPACER, SCREW AND BOLT | 5340-00-632-1252 | 0.320 | 0.448 | 0.582 |
| NAS43-5-48 | SPACER, SCREW AND BOLT | 5340-00-632-1252 | 0.320 | 0.448 | 0.750 |
| NAS43-6-12 | SPACER, SCREW AND BOLT | 5340-00-540-3668 | 0.377 | 0.515 | 0.187 |
| NAS43-6-30 | SPACER, SCREW AND BOLT | 5340-00-540-3668 | 0.377 | 0.515 | 0.468 |
| NAS43DD1-16 | SPACER, SLEEVE | 5340-00-841-8565 | 0.143 | 0.260 | 0.250 |
| NAS43DD1-7 | SPACER, SLEEVE | 5340-00-632-3562 | 0.143 | 0.260 | 0.114 |
| NAS43DD3-9 | SPACER, SCREW AND BOLT | 5340-00-727-1891 | 0.194 | 0.322 | 0.140 |
| NAS43DD3-10 | SPACER, SCREW AND BOLT | 5340-00-727-1891 | 0.194 | 0.322 | 0.186 |
| NAS43DD3-12 | SPACER, SCREW AND BOLT | 5340-00-727-1891 | 0.194 | 0.322 | 0.187 |
| NAS43DD3-19 | SPACER, SLEEVE | 5340-00-727-1891 | 0.194 | 0.322 | 0.206 |
| NAS43DD3-21 | SPACER, SCREW AND BOLT | 5340-00-727-1891 | 0.194 | 0.322 | 0.328 |
| NAS43DD3-22 | SPACER, SCREW AND BOLT | 5340-00-727-1891 | 0.194 | 0.322 | 0.343 |
| NAS43DD3-23 | SPACER, SCREW AND BOLT | 5340-00-727-1891 | 0.194 | 0.322 | 0.359 |
| NAS43DD3-28 | SPACER, SCREW AND BOLT | 5340-00-727-1891 | 0.194 | 0.322 | 0.437 |
| NAS43DD3-30 | SPACER, SCREW AND BOLT | 5340-00-727-1891 | 0.194 | 0.322 | 0.468 |
| NAS43DD3-31 | SPACER, SCREW AND BOLT | 5340-00-727-1891 | 0.194 | 0.322 | 0.484 |

Figure D-2. (Sheet 1 of 4)

| PART NUMBER | NOMENCLATURE | FABRICATE FROM NSN | ID (1) | OD (1) | LG |
|---|---|---|---|---|---|
| NAS43DD3-36 | SPACER, SCREW AND BOLT | 5340-00-727-1891 | *0.194 | *0.322 | 0.562 |
| NAS43DD3-38 | SPACER, SCREW AND BOLT | 5340-00-727-1891 | *0.194 | *0.322 | 0.593 |
| NAS43DD3-44 | SPACER, SCREW AND BOLT | 5340-00-727-1891 | *0.194 | *0.322 | 0.687 |
| NAS43DD3-45 | SPACER, SCREW AND BOLT | 5340-00-727-1891 | *0.194 | *0.322 | 0.703 |
| NAS43DD3-48 | SPACER, SCREW AND BOLT | 5340-00-727-1891 | *0.194 | 0.322 | 0.750 |
| NAD43DD3-50 | SPACER, SCREW AND BOLT | 5340-00-727-1891 | *0.194 | *0.322 | 0.781 |
| NAS43DD3-53 | SPACER, SCREW AND BOLT | 5340-00-727-1891 | *0.194 | *0.322 | 0.828 |
| NAS43DD3-54 | SPACER, SCREW AND BOLT | 5340-00-727-1891 | *0.194 | *0.322 | 0.843 |
| NAS43DD3-64 | SPACER, SCREW AND BOLT | 5340-00-727-1891 | *0.194 | *0.322 | 1.000 |
| NAS43DD3-65 | SPACER, SCREW AND BOLT | 5340-00-727-1891 | *0.194 | *0.322 | 1.015 |
| NAS43DD3-67 | SPACER, SCREW AND BOLT | 5340-00-727-1891 | *0.194 | *0.322 | 1.046 |
| NAS43DD3-70 | SPACER, SCREW AND BOLT | 5340-00-727-1981 | *01.94 | *0.322 | 1.093 |
| NAS43DD3-74 | SPACER, SCREW AND BOLT | 5340-00-727-1891 | *0.194 | *0.322 | 1.156 |
| NAS43DD3-76 | SPACER, SCREW AND BOLT | 5340-00-727-1891 | *0.194 | *0.322 | 1.187 |
| NAS43DD3-80 | SPACER, SCREW AND BOLT | 5340-00-727-1891 | *0.194 | *0.322 | 1.250 |
| NAS43DD3-88 | SPACER, SCREW AND BOLT | 5340-00-727-1891 | *0.194 | *0.322 | 1.375 |
| NAS43DD3-92 | SPACER, SCREW AND BOLT | 5340-00-727-1891 | *0.194 | *0.322 | 1.437 |
| NAS43DD3-96 | SPACER, SCREW AND BOLT | 5340-00-727-1891 | *0.194 | *0.322 | 1.500 |
| NAS43DD3-98 | SPACER, SCREW AND BOLT | 5340-00-727-1891 | *0.194 | *0.322 | 1.531 |
| NAS43DD3-112 | SPACER, SCREW AND BOLT | 5340-00-727-1891 | *0.194 | *0.322 | 1.750 |
| NAS43DD4-10 | SPACER, SCREW AND BOLT | 5340-00-632-1254 | *0.256 | *0.385 | 0.156 |
| NAS43DD4-16 | SPACER, SCREW AND BOLT | 5340-00-632-1254 | *0.256 | *0.385 | 0.250 |
| NAS43DD4-23 | SPACER, SCREW AND BOLT | 5340-00-632-1254 | *0.256 | *0.385 | 0.359 |
| NAS43DD4-28 | SPACER, SCREW AND BOLT | 5340-00-632-1254 | *0.256 | *0.385 | 0.437 |
| NAS43DD4-38 | SPACER, SCREW AND BOLT | 5340-00-632-1254 | *0.256 | *0.385 | 0.594 |
| NAS43DD4-60 | SPACER, SCREW AND BOLT | 5340-00-632-1254 | *0.256 | *0.385 | 0.937 |
| NAS43DD4-61 | SPACER, SCREW AND BOLT | 5340-00-632-1254 | *0.256 | *0.385 | 0.953 |
| NAS43DD4-71 | SPACER, SCREW AND BOLT | 5340-00-632-1254 | *0.256 | *0.385 | 1.109 |
| NAS43DD5-36 | SPACER, SCREW AND BOLT | 5340-00-632-1255 | *0.320 | *0.448 | 0.567 |
| NAS43DD10-14 | SPACER, SCREW AND BOLT | 5340-00-841-8565 | *0.627 | *0.765 | 0.218 |
| NAS43HT1-7 | SPACER, SCREW AND BOLT | 5340-00-952-2955 | *0.143 | *0.260 | 0.109 |
| NAS43HT3-12 | SPACER, SCREW AND BOLT | 5340-00-826-6257 | *0.194 | *0.322 | 0.187 |
| NAS43HT3-82 | SPACER, SCREW AND BOLT | 5340-00-826-6257 | *0.194 | *0.322 | 1.281 |
| NAS43HT4-7 | SPACER, SCREW AND BOLT | 5340-00-541-9565 | *0.256 | *0.385 | 0.109 |
| NAS43HT4-28 | SPACER, SCREW AND BOLT | 5340-00-632-1254 | *0.256 | *0.365 | 0.437 |
| NAS521-16-12 | COUPLING, HOSE | 4720-00-843-1731 | 2.000 | 2.126 | 3.000 |
| 85T4-0-2 | TUBE, INSULATING | 5970-00-623-8526 | 0.325 | 0.371 | 1.000 |
| 85T4-1-2 | TUBE, INSULATING | 5970-00-243-5878 | 0.294 | 0.334 | 1.000 |
| 85T4-1-27 | TUBE, INSULATING | 5970-00-811-9461 | 0.289 | 0.335 | 13.500 |
| 85T4-1-106 | TUBE, INSULATING | 5970-00-243-5878 | 0.294 | 0.334 | 53.00 |
| 85T4-2-2 | TUBE, INSULATING | 5970-00-235-2725 | 0.258 | 0.304 | 1.000 |
| 85T4-2-4 | TUBE, INSULATING | 5970-00-235-2725 | 0.263 | 0.303 | 2.000 |

**(1) Note: All dimensions nominal except as noted by *.**

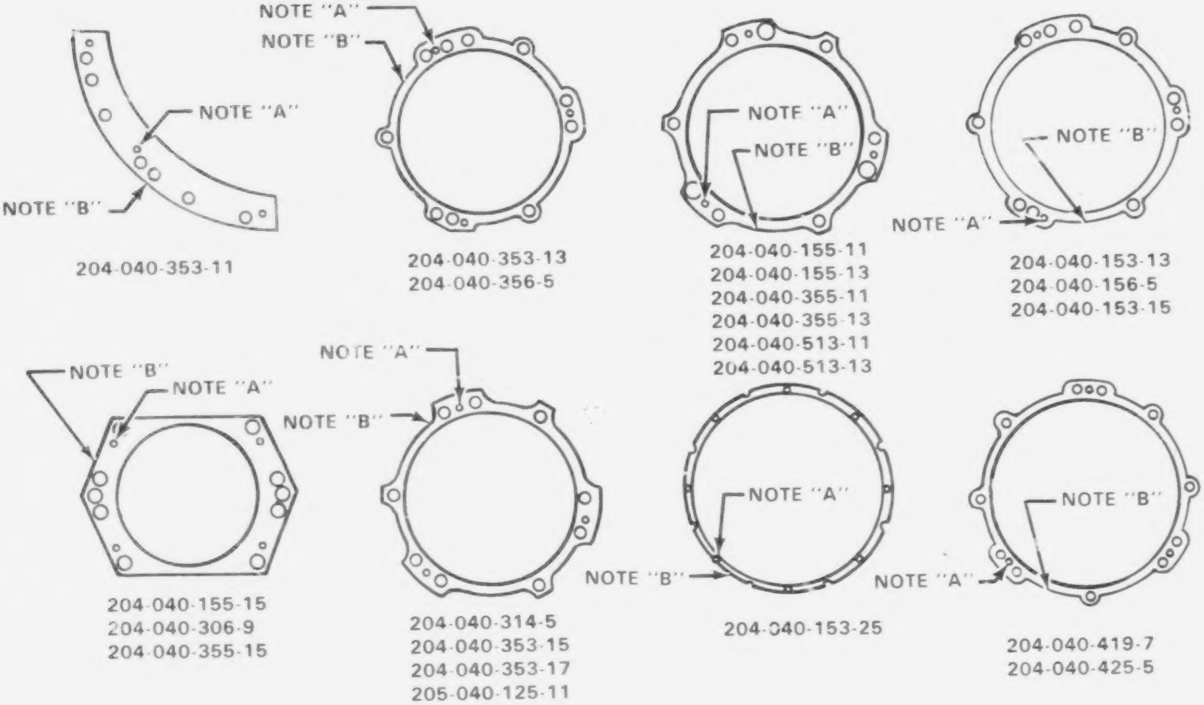
Figure D-2. (Sheet 2 of 4)

| PART NUMBER | NOMENCLATURE | FABRICATE FROM NSN | ID | OD | LG |
|---|---|---|---|---|---|
| 85T4-2-10 | TUBE, INSULATING | 5970-00-235-2725 | 0.263 | 0.303 | 5.000 |
| 85T4-2-27 | TUBE, INSULATING | 5970-00-235-2725 | 0.258 | 0.304 | 13.500 |
| 85T4-2-60 | TUBE, INSULATING | 5970-00-235-2725 | 0.258 | 0.304 | 30.00 |
| 85T4-2-108 | TUBE, INSULATING | 5970-00-235-2725 | 0.263 | 0.304 | 54.00 |
| 85T4-2-116 | TUBE, INSULATING | 5970-00-235-2725 | 0.263 | 0.304 | 58.00 |
| 85T4-3-1 | TUBE, INSULATING | 5970-00-235-2725 | 0.229 | 0.275 | 500 |
| 85T4-3-2 | TUBE, INSULATING | 5970-00-235-2725 | 0.229 | 0.275 | 1.000 |
| 85T4-3-6 | TUBE, INSULATING | 5970-00-263-1327 | 0.234 | 0.275 | 3.00 |
| 85T4-3-12 | TUBE, INSULATING | 5970-00-235-2725 | 0.229 | 0.275 | 6.00 |
| 85T4-3-56 | TUBE, INSULATING | 5970-00-235-2725 | 0.229 | 0.275 | 28.00 |
| 85T4-375-12 | TUBE, INSULATING | 5970-00-263-1327 | 0.375 | 0.431 | 6.00 |
| 85T4-4-4 | TUBE, INSULATING | 5970-00-235-2728 | 0.208 | 0.248 | 2.00 |
| 85T4-4-24 | TUBE, INSULATING | 5970-00-284-9696 | 0.208 | 0.248 | 12.00 |
| 85T4-34 | TUBE, INSULATING | 5970-00-284-9696 | 0.208 | 0.248 | 17.00 |
| 85T4-48 | TUBE, INSULATING | 5970-00-284-9689 | 0.208 | 0.248 | 24.00 |
| 85T4-50 | TUBE, INSULATING | 5970-00-284-9689 | 0.208 | 0.248 | 25.00 |
| 85T4-5-2 | TUBE, INSULATING | 5970-00-263-1325 | 0.186 | 0.226 | 1.000 |
| 85T4-5-15 | TUBE, INSULATING | 5970-00-263-1325 | 0.186 | 0.226 | 7.500 |
| 85T4-6-2 | TUBE, INSULATING | 5970-00-235-2719 | 0.166 | 0.206 | 1.000 |
| 85T4-6-4 | TUBE, INSULATING | 5970-00-235-2719 | 0.162 | 0.208 | 2.000 |
| 85T4-6-16 | TUBE, INSULATING | 5970-00-235-2719 | 0.166 | 0.206 | 8.000 |
| 85T4-7-2 | TUBE, INSULATING | 5970-00-557-6245 | 0.148 | 0.188 | 1.000 |
| 85T4-7-4 | TUBE, INSULATING | 5970-00-557-6245 | 0.144 | 0.186 | 2.000 |
| 85T4-8-1 | TUBE, INSULATING | 5970-00-284-8468 | 0.133 | 0.173 | 0.500 |
| 85T4-8-2 | TUBE, INSULATING | 5970-00-284-8468 | 0.133 | 0.173 | 1.000 |
| 85T4-8-6 | TUBE, INSULATING | 5970-00-284-8468 | 0.133 | 0.173 | 3.000 |
| 85T4-9-3 | TUBE, INSULATING | 5970-00-284-8468 | 0.114 | 0.160 | 1.500 |
| 85T4-10-1 | TUBE, INSULATING | 5970-00-826-9827 | 0.106 | 0.138 | 0.500 |
| 85T4-4-8 | TUBE, INSULATING | 5970-00-284-9696 | 0.208 | 0.248 | 4.00 |
| 85T4-10-2 | TUBE, INSULATING | 5970-00-826-9827 | 0.102 | 0.138 | 1.000 |
| 85T4-10-12 | TUBE, INSULATING | 5970-00-826-9870 | 0.106 | 0.140 | 6.000 |
| 85T4-11-3 | TUBE, INSULATING | 5970-00-826-9827 | 0.106 | 0.138 | 1.500 |
| 85T4-11-4 | TUBE, INSULATING | 5970-00-826-9827 | 0.081 | 0.138 | 2.000 |
| 85T4-12-1 | TUBE, INSULATING | 5970-00-826-9827 | 0.106 | 0.119 | 500 |
| 85T4-12-2 | TUBE, INSULATING | 5970-00-826-9827 | 0.106 | 0.138 | 1.000 |
| 85T4-14-1 | TUBE, INSULATING | 5970-00-235-2721 | 0.066 | 0.088 | 0.500 |
| 85T4-16-6 | TUBE, INSULATING | 5970-00-809-9163 | 0.053 | 0.085 | 3.000 |
| 85T4-375-2 | TUBE, INSULATING | 5970-00-235-2728 | 0.375 | 0.431 | 1.000 |
| 85T4-375-3 | TUBE, INSULATING | 5970-00-235-2728 | 0.375 | 0.431 | 1.500 |
| 85T4-375-8 | TUBE, INSULATING | 5970-00-235-2728 | 0.375 | 0.431 | 4.000 |
| 85T4-375-12 | TUBE, INSULATING | 5970-00-235-2728 | 0.375 | 0.431 | 6.000 |
| 85T4-375-46 | TUBE, INSULATING | 5970-00-235-2728 | 0.375 | 0.431 | 23.000 |
| 85T4-375-52 | TUBE, INSULATING | 5970-00-235-2728 | 0.375 | 0.419 | 26.00 |
| 85T4-500-2 | TUBE, INSULATING | 5970-00-284-9698 | 0.208 | 0.248 | 1.000 |

Figure D-2. (Sheet 3 of 4)

| PART NUMBER | NOMENCLATURE | FABRICATE FROM NSN | ID | OD | LG |
|---|---|---|---|---|---|
| 85T4-500-4 | TUBE INSULATING | 5970-00-557-6254 | 0.500 | 0.556 | 2.000 |
| 85T4-500-6 | TUBE, INSULATING | 5970-00-284-9698 | 0.500 | 0.556 | 3.000 |
| 85T4-625-2 | TUBE, INSULATING | 5970-00-615-9853 | 0.625 | 0.695 | 1.000 |
| 85T4-875-56 | TUBE, INSULATING | 5970-00-615-4946 | 0.875 | 0.955 | 28.00 |
| 85T4-1000-8 | TUBE, INSULATING | 5970-00-882-5007 | 1.000 | 1.060 | 4.000 |
| 85T4-1250-48 | TUBE, INSULATING | 5970-00-284-8480 | 1.250 | 1.340 | 24.00 |
| 204-071-523-1 | TUBE. GUARD | 4710-00-277-3627 | 0.652 | 0.750 | 9.000 |
| 204-071-542-3 | TUBE. GUARD | 4710-00-279-0917 | 0.180 | 0.250 | 8.500 |
| 204-075-181-9 | SPACER | 9330-00-260-3806 | 0.250 | 1.000 | 0.250 |

Figure D-2. (Sheet 4 of 4)



204-040-353-11

204-040-353-13
204-040-356-5

204-040-155-11
204-040-155-13
204-040-355-11
204-040-355-13
204-040-513-11
204-040-513-13

204-040-153-13
204-040-156-5
204-040-153-15

204-040-155-15
204-040-306-9
204-040-355-15

204-040-314-5
204-040-353-15
204-040-353-17
205-040-125-11

204-040-153-25

204-040-419-7
204-040-425-5

| PART NUMBER | FABRICATE FROM NSN | NOTES | PART NUMBER | FABRICATE FROM NSN | NOTES |
|---|---|---|---|---|---|
| 204-040-153-13 | 1560-00-898-1615 | A,B | 204-040-353-17 | 1560-00-894-6539 | A,B |
| 204-040-153-15 | 1560-00-894-6539 | A,B | 204-040-355-11 | 1560-00-491-0880 | A,B |
| 204-040-153-25 | 1560-00-898-1614 | A,B | 204-040-355-13 | 1560-00-491-0880 | A,B |
| 204-040-155-11 | 1560-00-491-0880 | A,B | 204-040-355-15 | 1560-00-893-4551 | A,B |
| 204-040-155-13 | 1560-00-491-0880 | A,B | 204-040-356-5 | 1560-00-893-4598 | A,B |
| 204-040-155-15 | 1560-00-893-4551 | A,B | 204-040-419-7 | 1560-00-898-1576 | A,B |
| 204-040-156-5 | 1560-00-898-1615 | A,B | 204-040-425-5 | 1560-00-898-1576 | A,B |
| 204-040-306-9 | 1560-00-893-4551 | A,B | 204-040-513-11 | 1560-00-491-0880 | A,B |
| 204-040-314-5 | 1560-00-894-6539 | A,B | 204-040-513-13 | 1560-00-491-0880 | A,B |
| 204-040-353-11 | 1560-00-893-4552 | A,B | 205-040-125-11 | 1560-00-894-6539 | A,B |
| 204-040-353-13 | 1560-00-893-4598 | A,B | 205-040-125-15 | 1560-00-894-6539 | A,B |
| 204-040-353-15 | 1560-00-894-6539 | A,B | | | |

NOTES

A. COUNTERSINK 100° BEFORE PLATING
B. SIDES OF PLATES TO BE PARALLEL WITHIN 0.0002 T.I.R. AFTER PLATING

Figure D-3 Shims

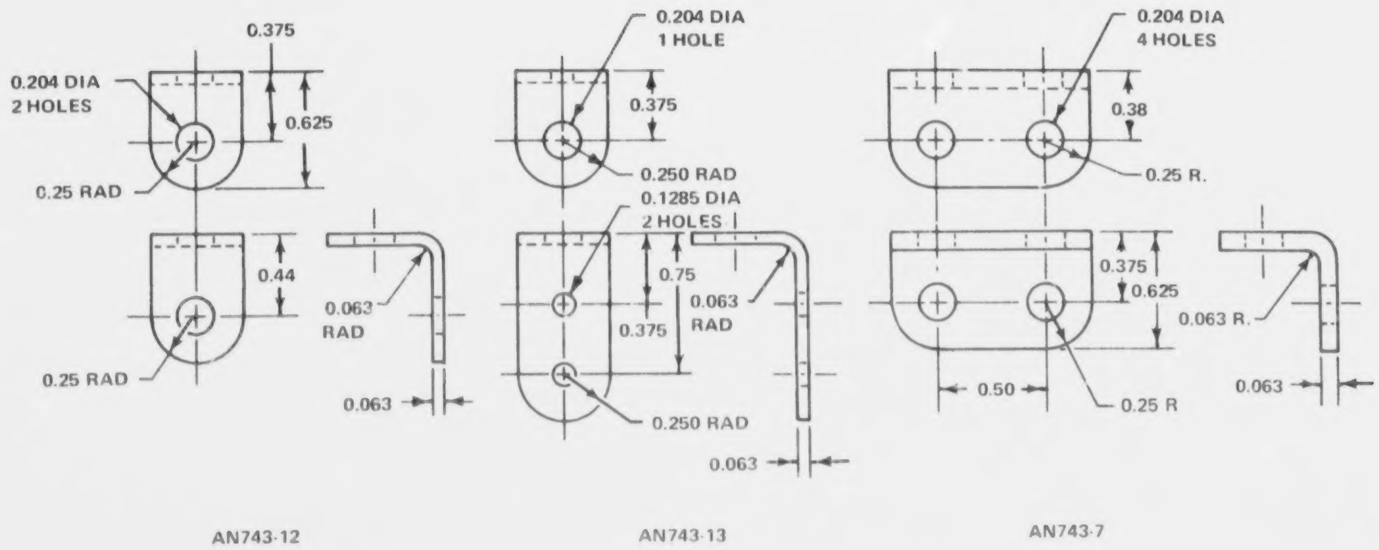
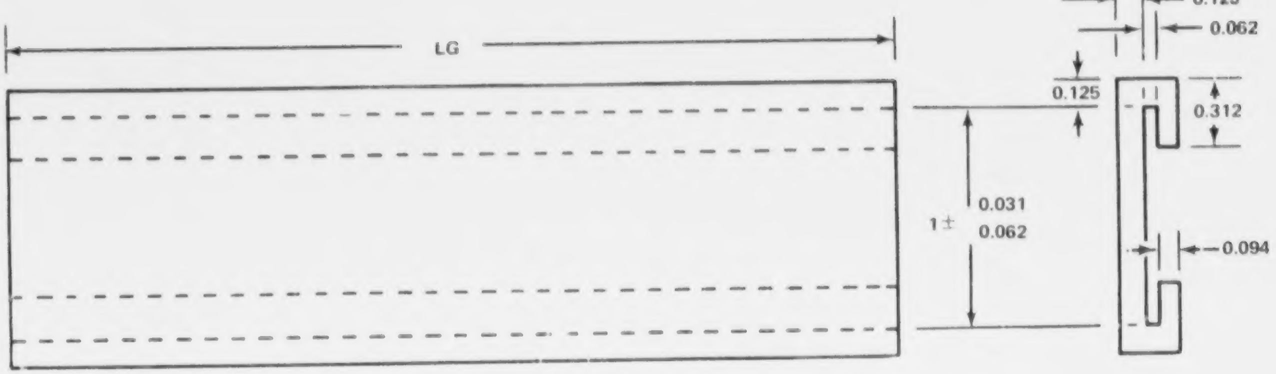

0.375
0.204 DIA
2 HOLES
0.625
0.25 RAD
0.44
0.063
RAD
0.25 RAD
0.063
AN743-12
0.204 DIA
1 HOLE
0.375
0.250 RAD
0.1285 DIA
2 HOLES
0.75
0.063
RAD
0.375
0.250 RAD
0.063
AN743-13
0.204 DIA
4 HOLES
0.38
0.25 R.
0.375
0.625
0.063 R.
0.50
0.25 R
0.063
AN743-7

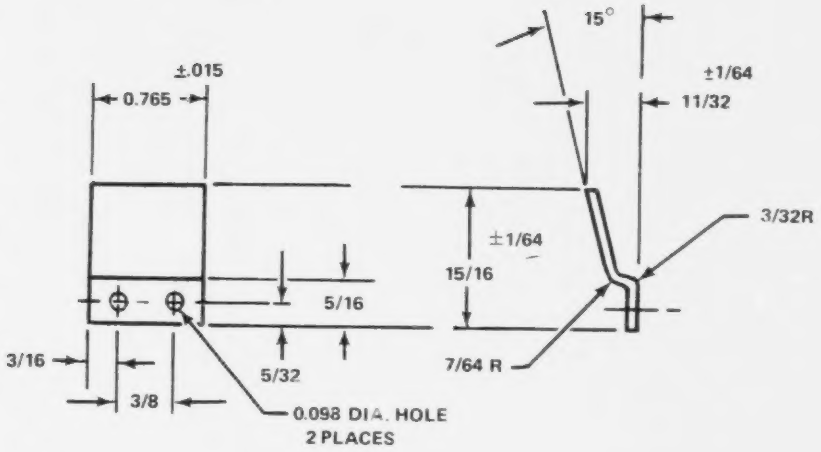
Figure D-4. Part Number AN 743-7 BRACKET, Support Clamp
AN 743-12
AN 743-13
Fabricate from: NSN 9535-00-232-0378
Material: Federal Specification, QQ-A-362 2024 AL ALY Sheet, 0.063 Inch Thick


LG
0.125
0.062
0.125
0.312
1 ± 0.031 0.062
0.094

NOTES
1. + 0.125
Tolerance on Lg

| PARTS NUMBER | FABRICATE FROM NSN | LG |
|---|---|---|
| AN8031-8-183 | 9390-00-263-0061 | 18.75 |

**Figure D-5.** Part Number: AN 8031-8-183 PAD, Strap
Fabricate from: 9390-00-263-0061
Material: Synthetic rubber and cork channel MIL-G-6183
Synthetic Rubber, Nonmetallic Soft, Fuel and Oil Grade MIL-G-6183



±.015
0.765
15°
±1/64
11/32
3/32R
±1/64
15/16
5/16
5/32
3/16
3/8
7/64 R
0.098 DIA. HOLE
2 PLACES

NOTES:
1. MATL. PER SPEC. QQA318
2. FINISH IRIDITE PER SPEC.
MIL-C-5541

**Figure D-6.** Part Number A6544, CLIP, Wire Light
Fabricate from: NSN 9535-00-232-0378
Material: 2024 AL ALY Sheet, Federal Specification QQ-250/5, 0.063 Inch Thick

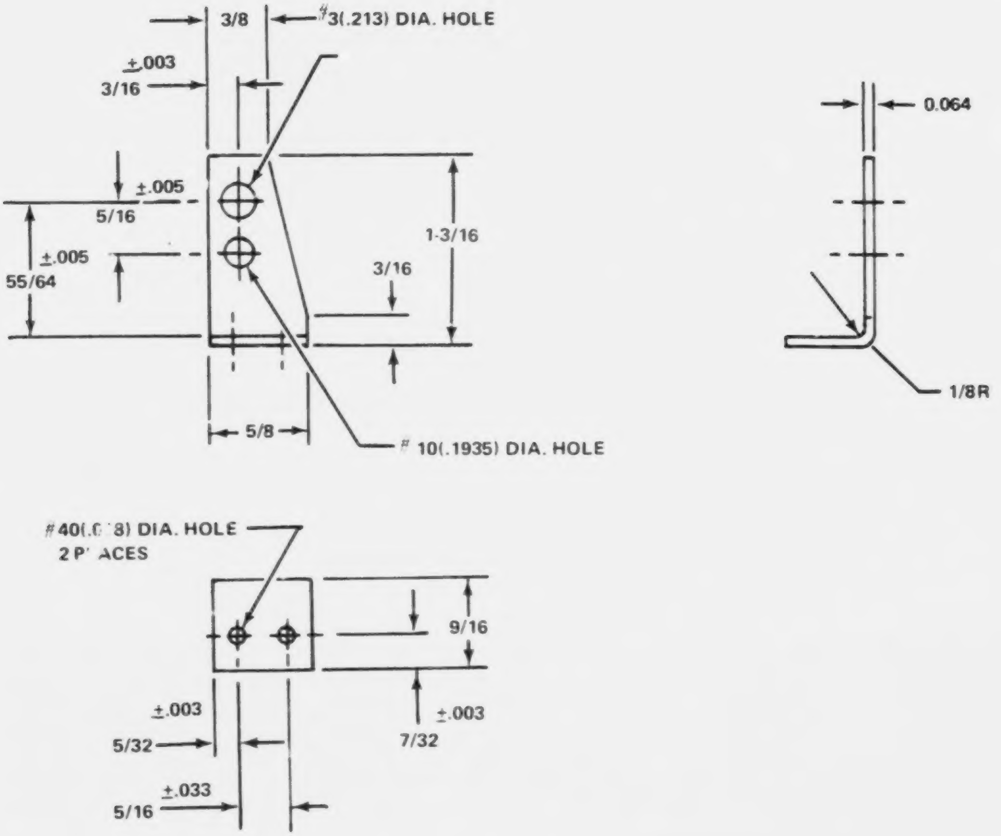
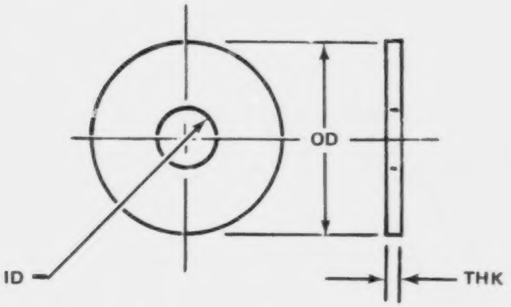

3/8
#3(.213) DIA. HOLE
±.003
3/16
±.005
5/16
±.005
55/64
1-3/16
3/16
5/8
# 10(.1935) DIA. HOLE
0.064
1/8R
#40(.098) DIA. HOLE
2 PLACES
9/16
±.003
5/32
±.003
7/32
±.033
5/16

**Figure D-7.** Part Number A6545, BRACKET, LH
Fabricate from: NSN 9535-00-232-0378
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5 0.063 Inch Thick



BREAK SHARP EDGES .025 x 45° or .025 R
DIAMETERS TO BE CONCENTRIC
TO .010 T.I.R.

| PART NUMBER | NAME | FABRICATE FROM | ID | OD | THK |
|---|---|---|---|---|---|
| 204-010-780-1 | WASHER | 5310-00-167-0766 | 0.397 0.390 | 1.125 ± .01 | 0.063 ±.01 |
| 204-010-793-3 | WASHER | 5310-00-167-0766 | 0.256 0.263 | 0.700 ± .01 | 0.063 ±.01 |
| 204-011-708-1 | WASHER | 5310-00-167-0766 | 0.457 | 1.125 ± .01 | 0.063 ±.01 |
| 204-011-708-3 | WASHER | 5310-00-167-0768 | 0.452 | 1.625 ± .01 | 0.063 ±.01 |

WASHER, FLAT

Figure D-8.

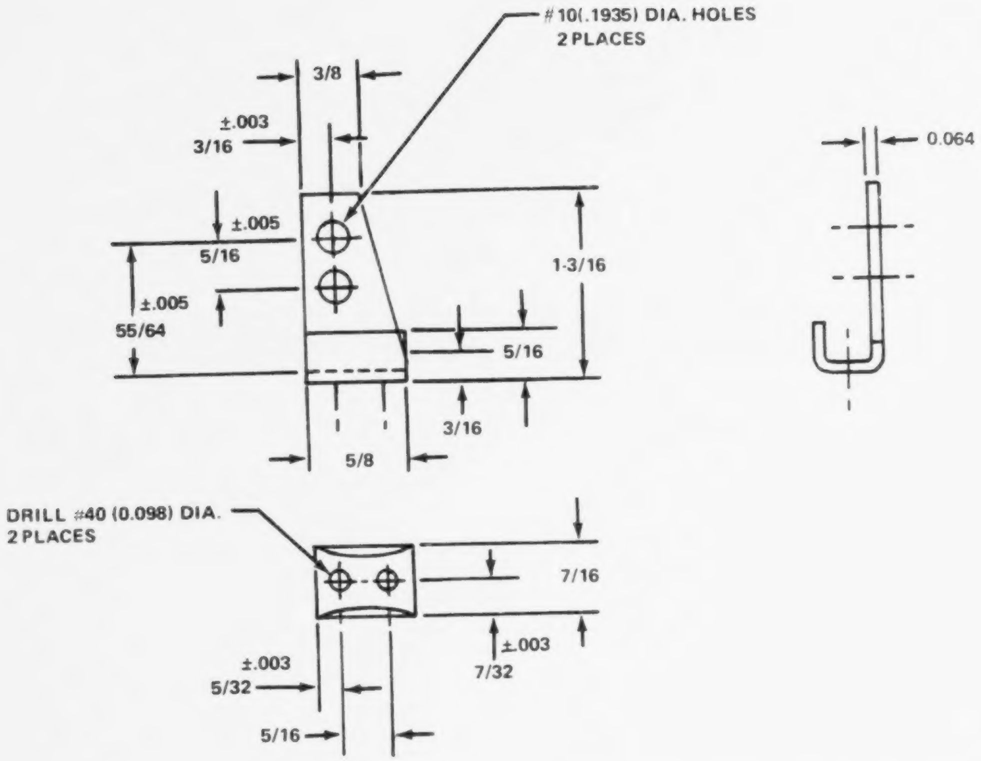

#10(.1935) DIA. HOLES
2 PLACES
3/8
±.003
3/16
±.005
5/16
±.005
55/64
1-3/16
5/16
3/16
5/8
0.064
DRILL #40 (0.098) DIA.
2 PLACES
7/16
±.003
7/32
±.003
5/32
5/16

**Figure D-9** Part Number A6546, BRACKET
Fabricate from: NSN 9535-00-232-0378
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.063 Inch Thick

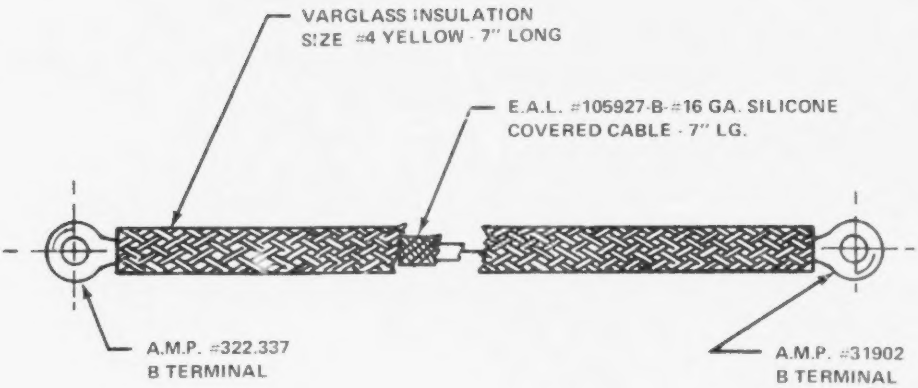
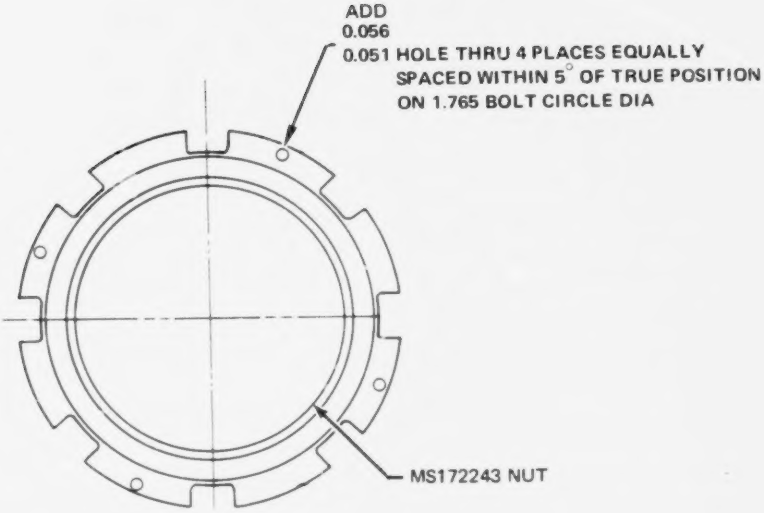
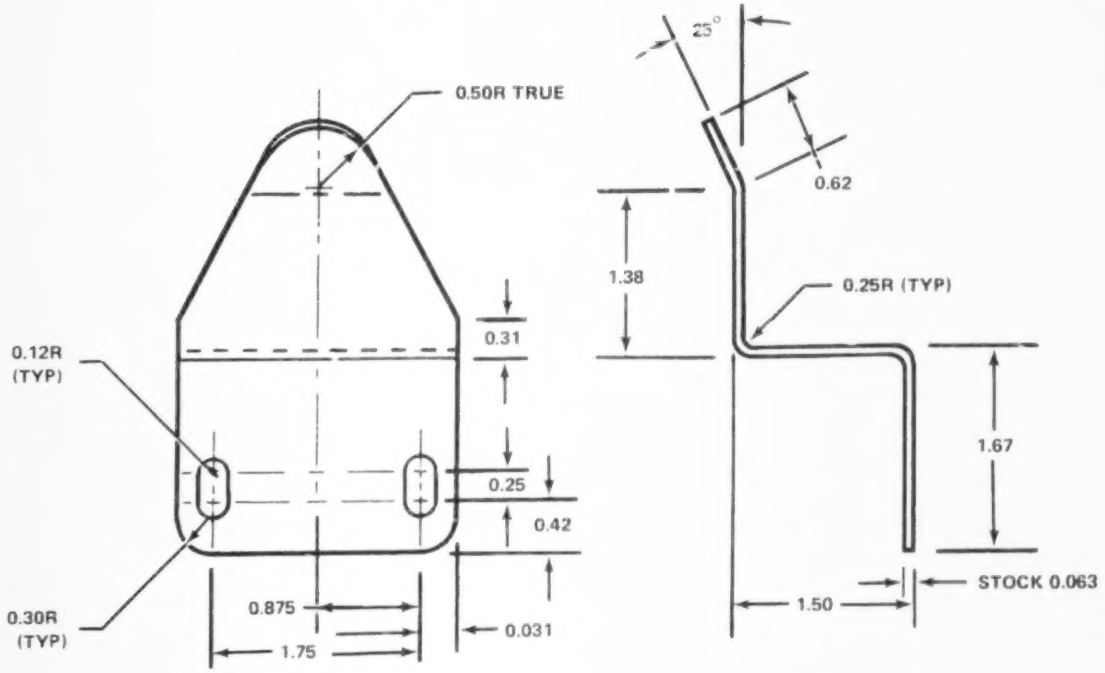

VARGLASS INSULATION
SIZE #4 YELLOW - 7" LONG
E.A.L. #105927-B-#16 GA. SILICONE
COVERED CABLE - 7" LG.
A.M.P. #322.337
B TERMINAL
A.M.P. #31902
B TERMINAL

**Figure D-10.** Part Number A6910, WIRE ASSEMBLY, Lamp
Fabricate from: NSN 5940-00-557-1627
NSN 6145-00-998-7609


ADD
0.056
0.051 HOLE THRU 4 PLACES EQUALLY SPACED WITHIN 5° OF TRUE POSITION ON 1.765 BOLT CIRCLE DIA
MS172243 NUT

| Figure D-11. | Part Number | 204-001-222-1 NUT, Collective Stick Lock |
|---|---|---|
| | Fabricate from: | NSN 5310-00-566-8864 (MS 172243) |
| | Material: | Steel AMS 6381 or AMS 6382 |


0.50R TRUE
0.12R (TYP)
0.31
0.25
0.42
0.30R (TYP)
0.875
1.75
0.031
25°
0.62
1.38
0.25R (TYP)
1.67
1.50
STOCK 0.063

| Figure D-12. | Part Number | 204-030-010-1 STOP, Windshield Wiper |
|---|---|---|
| | Fabricate from: | NSN 9535-00-232-0378 |
| | Material: | 2024 AL ALY, Sheet, Federal Specification QQ-A-250/5, 0.063 Inch Thick |

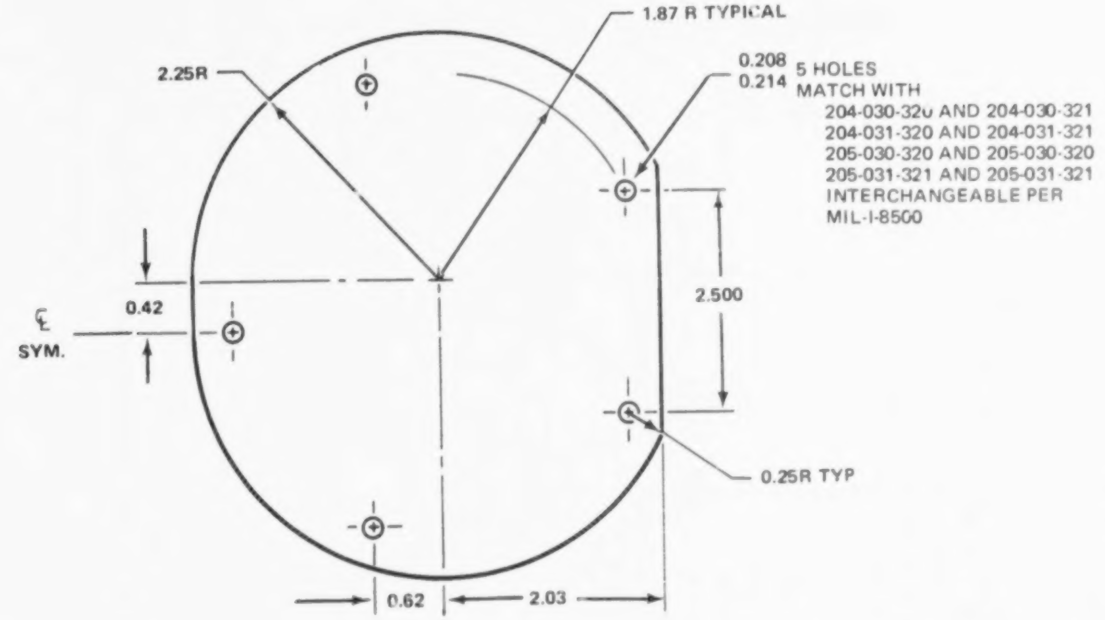
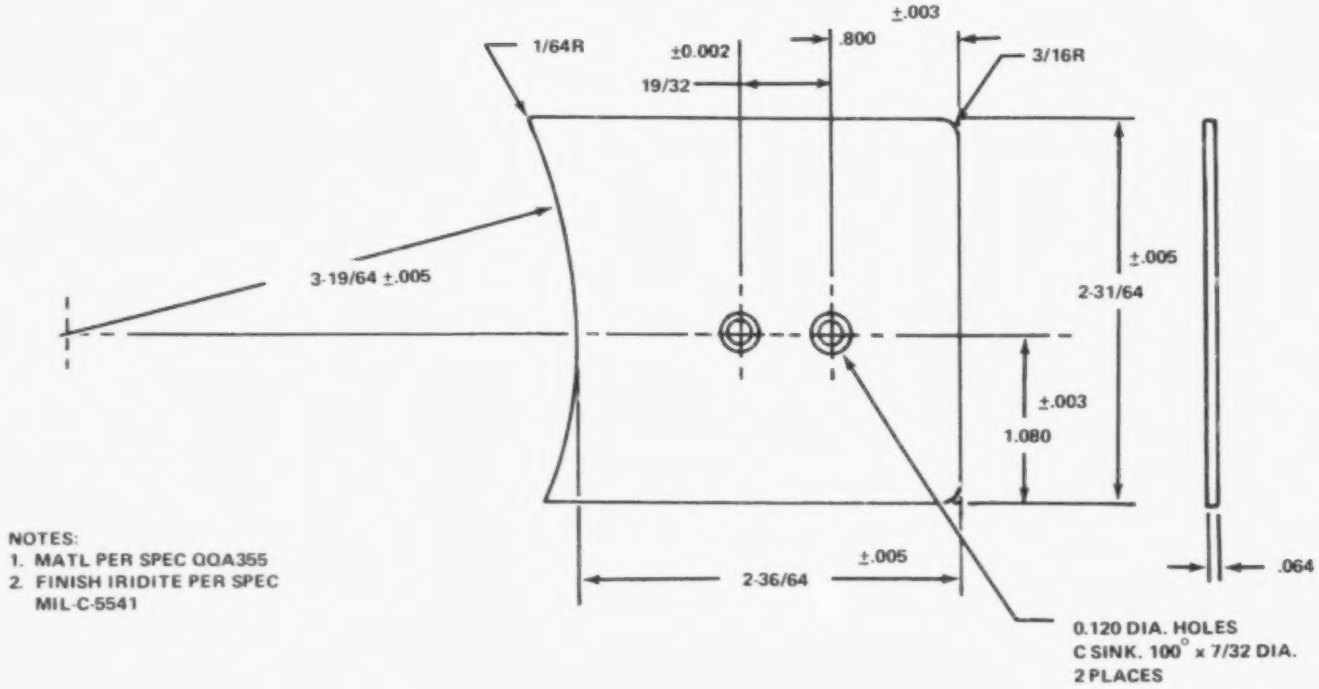
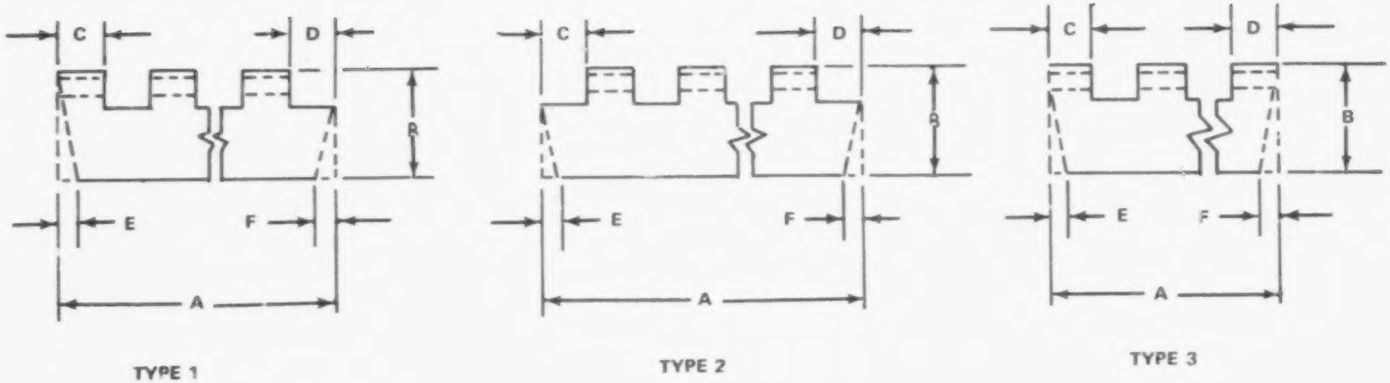

1.87 R TYPICAL
2.25R
0.208
0.214
5 HOLES
MATCH WITH
204-030-320 AND 204-030-321
204-031-320 AND 204-031-321
205-030-320 AND 205-030-320
205-031-321 AND 205-031-321
INTERCHANGEABLE PER
MIL-I-8500
℄
SYM.
0.42
2.500
0.25R TYP
0.62
2.03

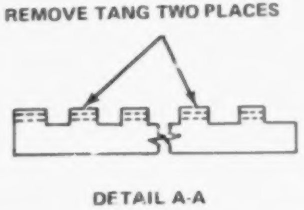
**Figure D-13.** **Part Number** **204-030-337-3 DOOR, Cyclic**
**Fabricate from:** **NSN 9535-00-086-9729**
**Material:** **7075 AL ALY, T6, Federal Specification QQ-A-250/13, 0.025 Inch Thick**


1/64R
±0.002
19/32
.800
±.003
3/16R
3-19/64 ±.005
±.005
2-31/64
±.003
1.080
±.005
2-36/64
.064
0.120 DIA. HOLES
C SINK. 100° x 7/32 DIA.
2 PLACES

NOTES:
1. MATL PER SPEC QQA355
2. FINISH IRIDITE PER SPEC MIL-C-5541

| | | |
|---|---|---|
| **Figure D-14.** | Part Number | A6915, PLATE, Cover |
| | Fabricate from: | NSN 9535-00-232-0378 |
| | Material: | 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.63 Inch Thick |


C
D
B
E
F
A
TYPE 1
TYPE 2
TYPE 3


REMOVE TANG TWO PLACES
DETAIL A-A

GENERAL NOTES:

1. CRIMP BOTH ENDS OF HINGE TO RETAIN HINGE PIN.
2. HOLES TO BE DRILLED AT TIME OF INSTALLATION AND TO BE EQUALLY SPACED ALONG HINGE HALF.

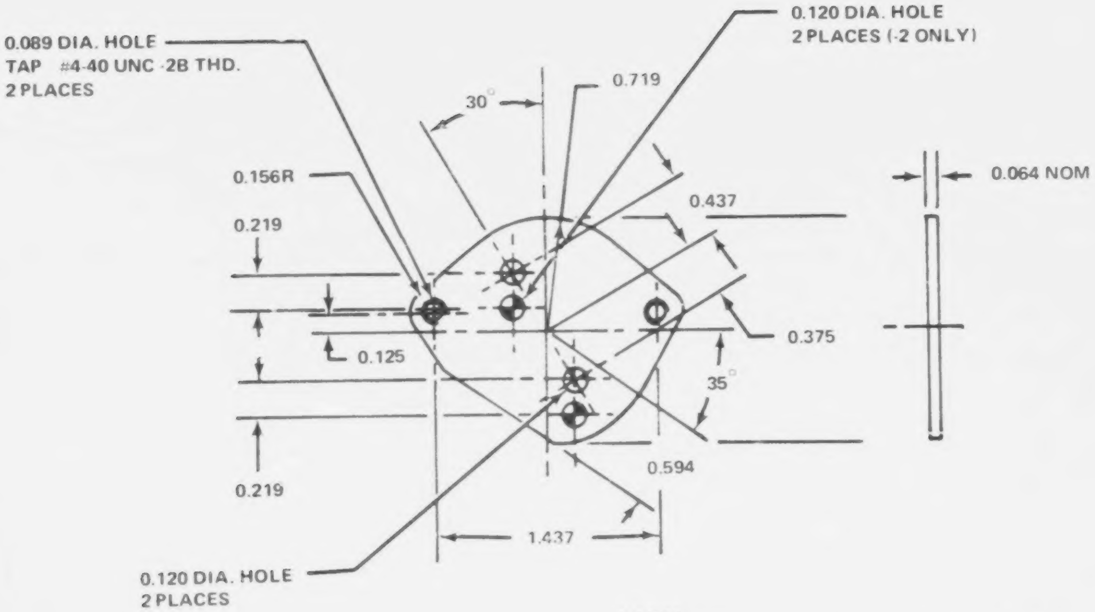
SPECIAL NOTES:

A. FOR INSTALLATION OF SPRING REMOVE CENTER TANG.
B. FOR INSTALLATION OF SPRINGS REMOVE TWO TANGS. SEE DETAIL A-A.
C. HINGE HALF WITH TANGS REMOVED MAY BE MISMATCHED AT BOTTOM OF TANG.
D. BOTH ENDS OF HINGE HALF MUST BE EQUAL WITHIN 0.020 INCHES.

Figure D-15. (Sheet 1 of 2)

| PART NUMBER | FABRICATE FROM NSN | TYPE | A | B | C | D | E | F | NO. OF HOLES TO BE DRILLED | SPECIAL NOTES |
|---|---|---|---|---|---|---|---|---|---|---|
| AN257-2-650 | 5340-00-664-8121 | 1 | 6.50 | STOCK | | | N/A | N/A | AR | D |
| 204-030-813-21 | 5340-00-993-1461 | 1 | AR | STOCK | | | N/A | N/A | AR | D |
| 204-030-813-23 | 5340-00-993-1461 | 1 | AR | STOCK | | | N/A | N/A | AR | D |
| 204-030-813-25 | 5340-00-993-1461 | 1 | AR | STOCK | | | N/A | N/A | AR | D |
| 204-030-813-27 | 5340-00-993-1461 | 1 | AR | STOCK | | | N/A | N/A | AR | D |
| 204-030-840-1 | 5340-00-993-1461 | 1 | 14.50 | STOCK | | | N/A | N/A | AR | D |
| 204-030-840-3 | 5340-00-993-1461 | 2 | 7.16 | STOCK | | | N/A | N/A | AR | D |
| 204-030-840-5 | 5340-00-993-1461 | 2 | 7.16 | STOCK | | | N/A | N/A | AR | D |
| 205-030-245-13 | 5340-00-664-8140 | 1 | 6.30 | STOCK | | | N/A | N/A | 6 | D |
| 205-030-245-53 | 5340-00-664-8140 | 1 | 6.30 | STOCK | | | N/A | N/A | 6 | B,D |
| 205-030-245-43 | 5340-00-664-8140 | 1 | 6.30 | STOCK | | | N/A | N/A | 6 | B,D |
| 205-030-245-45 | 5340-00-664-8140 | 1 | 6.30 | STOCK | | | N/A | N/A | 6 | D |
| 205-030-484-15 | 5340-00-664-8140 | 3 | 3.10 | STOCK | | | N/A | N/A | 5 | D |
| 205-030-484-17 | 5340-00-664-8140 | 2 | 3.10 | STOCK | | | N/A | N/A | 5 | D |
| 205-030-539-11 | 5340-00-664-8140 | 1 | 2.50 | STOCK | | | N/A | N/A | 4 | D |
| 205-031-668-51 | 5340-00-993-1461 | 1 | 6.00 | STOCK | | | N/A | N/A | 6 | D |

Figure D-15. (Sheet 2 of 2)


0.089 DIA. HOLE
TAP #4-40 UNC -2B THD.
2 PLACES
0.120 DIA. HOLE
2 PLACES (-2 ONLY)
30°
0.719
0.156R
0.437
0.064 NOM
0.219
0.125
0.375
35°
0.594
0.219
1.437
0.120 DIA. HOLE
2 PLACES

NOTES:
1. MATL: 5052-H32 AL PER SPEC QQ-A-318
2. FINISH: IRIDITE PER SPEC. MIL-C-5541
3. THREADS PER SPEC MIL-S-7742

| **Figure D-16.** | Part Number | A9116-2 PLATE |
|---|---|---|
| | Fabricate from: | NSN 9535-00-232-0378 |
| | Material: | 2024 AL ALY Sheet, Federal Specification, QQ-A-250/5, 0.063 Inch Thick |

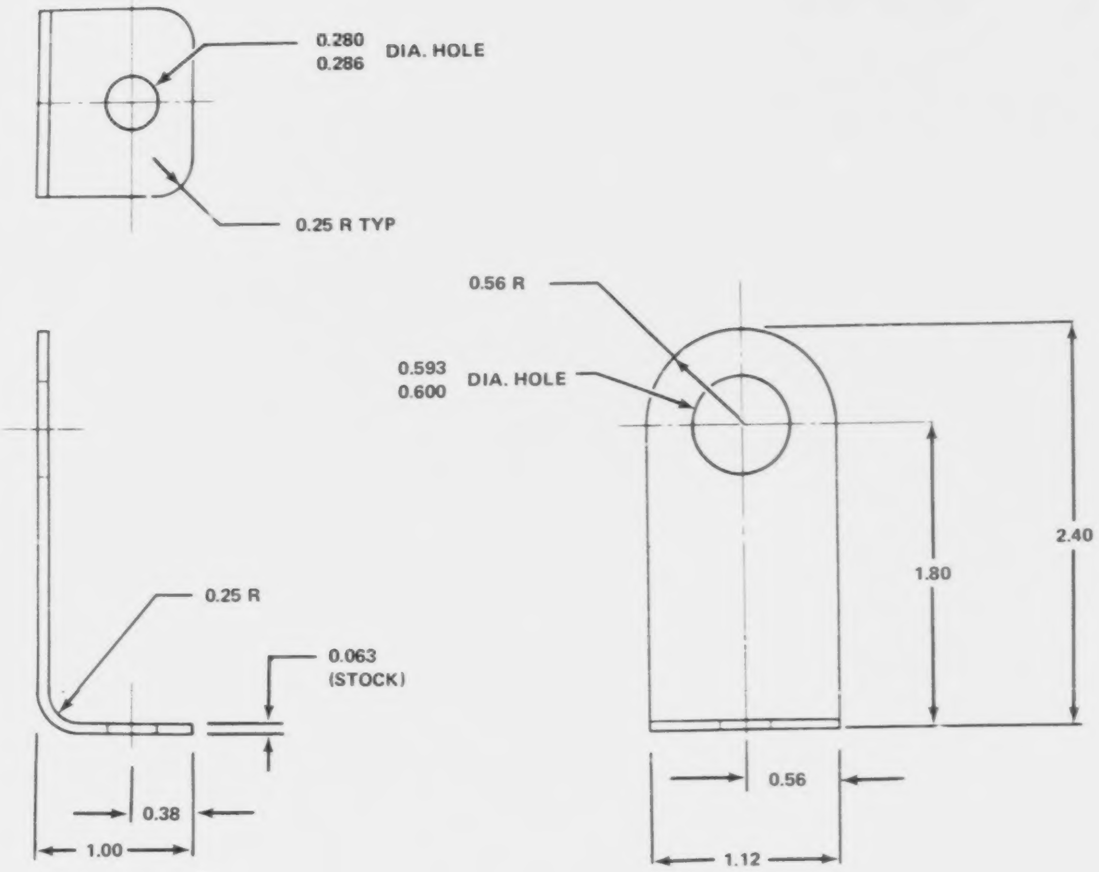
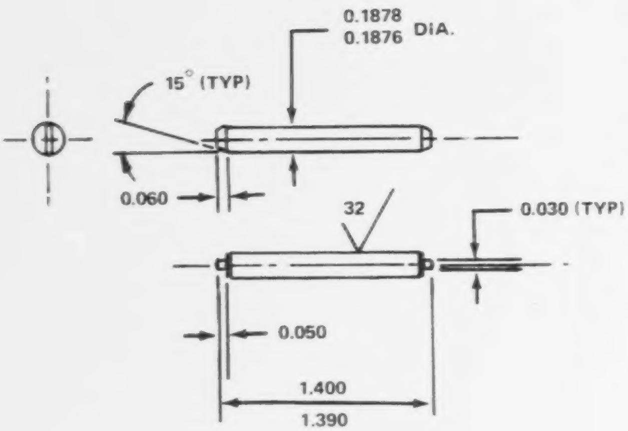

0.280
0.286
DIA. HOLE
0.25 R TYP
0.56 R
0.593
0.600
DIA. HOLE
2.40
1.80
0.25 R
0.063
(STOCK)
0.38
1.00
0.56
1.12

**Figure D-17.**

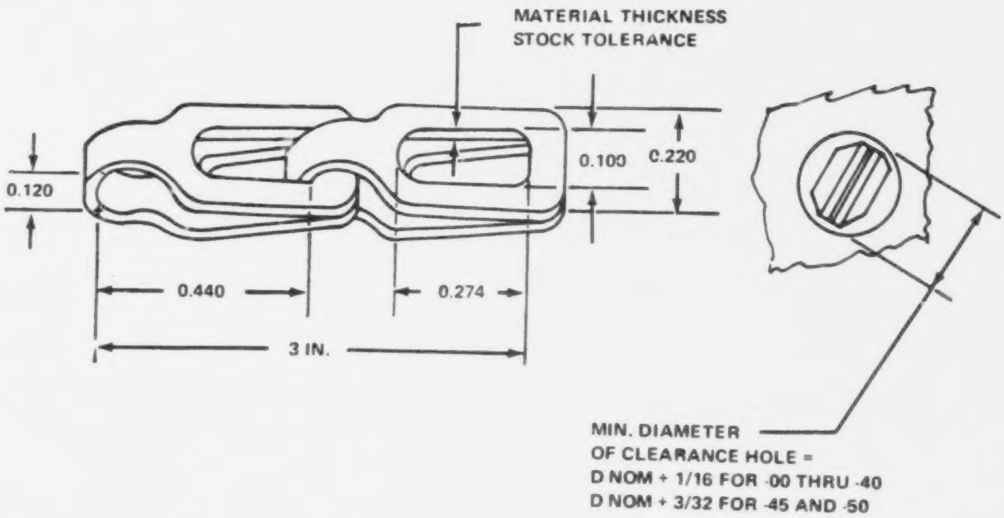
Part Number 204-040-299-1 BRACKET, Oil Drain Line
Fabricate from: NSN 9535-00-232-0378
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.063 Inch Thick


0.1878
0.1876 DIA.
15° (TYP)
0.060
32
0.030 (TYP)
0.050
1.400
1.390

NOTE:

1. COAT WITH PRESERVATIVE OIL AND WRAP IN MOISTURE-PROOF PAPER (OR EQ.)

**Figure D-18.** Part Number CSC536-3, PIN, Cam
Fabricate from: NSN 9510-00-234-7620


MATERIAL THICKNESS
STOCK TOLERANCE
0.120
0.100
0.220
0.440
0.274
3 IN.
MIN. DIAMETER
OF CLEARANCE HOLE =
D NOM + 1/16 FOR -00 THRU -40
D NOM + 3/32 FOR -45 AND -50

| PART NUMBER | FABRICATE FROM NSN | A | B | C | D | E | LG |
|---|---|---|---|---|---|---|---|
| NAS 1455-00-3C | 4010-00-262-1551 | 0.440 | 0.274 | 0.100 | 0.220 | 0.120 | 3 IN. |
| NAS 1455-00-5 | 4010-00-228-9948 | 0.440 | 0.274 | 0.100 | 0.220 | 0.120 | 5 IN. |
| NAS 1455-1A2-5 | 4010-00-554-8661 | 0.576 | 0.350 | 0.109 | 0.178 | 0.295 | 5 IN. |
| NAS 1455-B00-5 | 4010-00-554-8661 | 0.440 | 0.274 | 0.100 | 0.220 | 0.120 | 5 IN. |
| NAS 1455-A-00-4 | 4010-00-262-1551 | 0.440 | 0.274 | 0.100 | 0.220 | 0.120 | 4 IN. |
| 1560-UH1-762-2 | 4010-00-554-8661 | 0.440 | 0.274 | 0.100 | 0.220 | 0.120 | 6 IN. |
| 1560-UH1-762-2 * | 5315-00-194-2455 | 0.440 | 0.274 | 0.100 | 0.220 | 0.120 | 6 IN. |

CHAIN, WELDLESS

* Use with P/N 1560-UH1-762-2 only

Figure D-19.

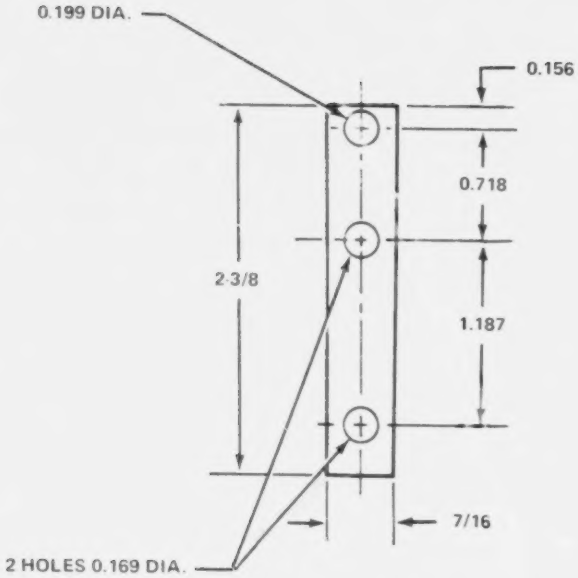
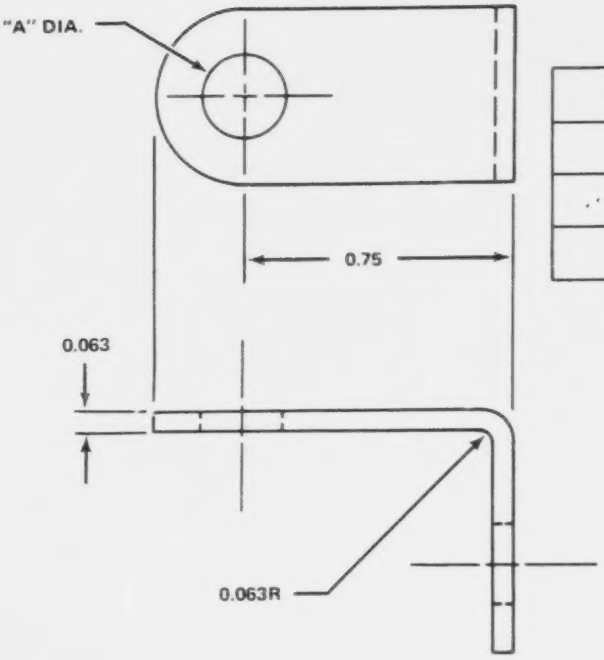

0.199 DIA.
0.156
0.718
2-3/8
1.187
7/16
2 HOLES 0.169 DIA.

**Figure D-20.** Part Number W20396, BRACKET
Fabricate from: NSN 9535-00-640-2311
Material: 2024 AL ALY Sheet, Federal Specification, QQ-A-250/5, 0.050 Inch Thick


"A" DIA.
0.75
0.063
0.063R

| DASH NO. | DIA. "A" | DIA. "B" |
|---|---|---|
| -1 | 0.204 | 0.204 |
| -2 | 0.204 | 0.264 |
| -3 | 0.264 | 0.204 |

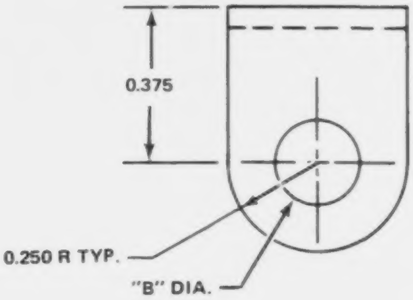

0.375
0.250 R TYP.
"B" DIA.

**Figure D-21.** Part Numbers 20-032-1 BRACKET SUPPORT
20-032-2
20-032-3
Fabricate from: NSN 9535-00-232-0378
Material 2024 AL ALY Sheet, Federal Specification, QQ-A-250/5, 0.063 Inch Thick

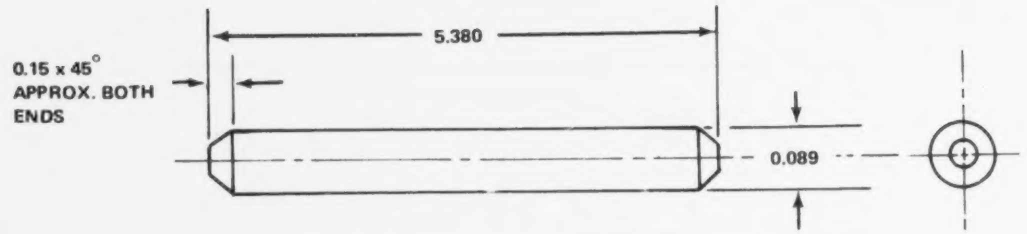

5.380
0.15 x 45°
APPROX. BOTH
ENDS
0.089

**Figure D-22.**
Part Number: MS20253P2-538 PIN, HINGE
Fabricate from: NSN 5340-00-043-3723
Material: Rod, Straight, Headless Cres. Cadmium Plated, 0.089 Inch Diameter

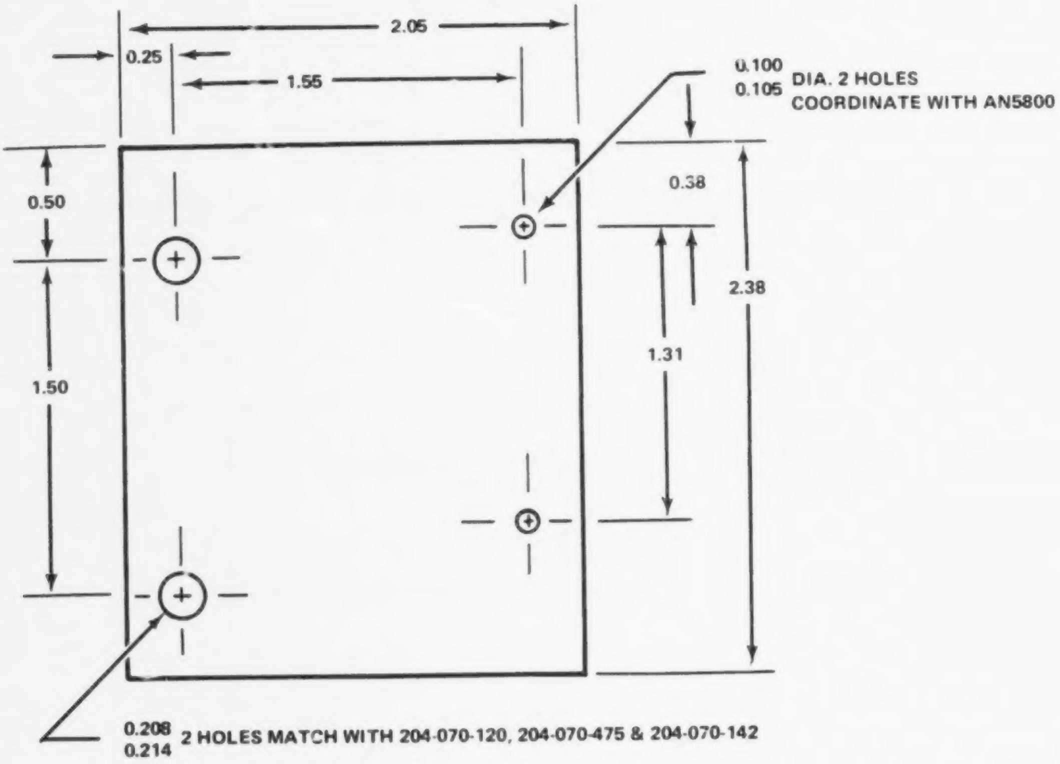

2.05
0.25
1.55
0.100
0.105
DIA. 2 HOLES
COORDINATE WITH AN5800
0.50
0.38
2.38
1.31
1.50
0.208
0.214
2 HOLES MATCH WITH 204-070-120, 204-070-475 & 204-070-142

**Figure D-23.**
Part Number 204-070-143-3 PLATE, Correction Card Holder
Fabricate from: NSN 9535-00-167-2277
Material: 2024 AL ALY Sheet, Federal Specification, QQ-A-250/5, 0.020 Inch Thick

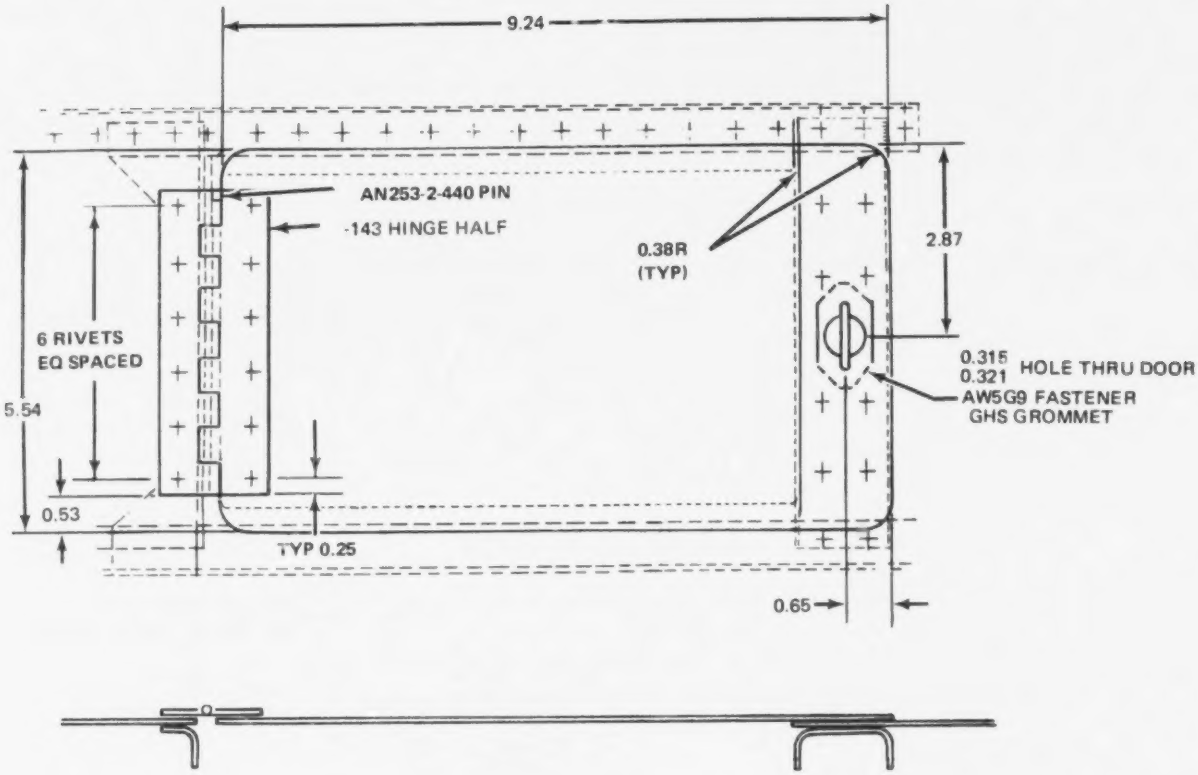

9.24
AN253-2-440 PIN
-143 HINGE HALF
0.38R
(TYP)
2.87
6 RIVETS
EQ SPACED
5.54
0.315
0.321 HOLE THRU DOOR
AW5G9 FASTENER
GHS GROMMET
0.53
TYP 0.25
0.65

**Figure D-24.** Part Number 204-030-007-139 DOOR ASSEMBLY
Fabricate from: NSN 9535-00-167-2279
NSN 5340-00-209-7519
NSN 5325-00-838-8804
NSN 5325-00-141-4002
Material: 2024 AL ALY, Federal Specification, QQ-A-25, 0.020 Inch Thick

| TUBE ASSY PART NUMBER | FABRICATE FROM NSN | STOCK DIM. | END FITTING | | | |
|---|---|---|---|---|---|---|
| | | | NUT NSN | NO. REQ. | SLEEVE NSN | NO. REQ. |
| 204-040-749-1 | 4710-00-279-0955 | 3/8 x 0.035 x 30.00 | 4730-00-142-2167 | 1 | 4730-00-278-6070 | 1 |

| 1ST BEND FROM "Y" | | | | 2ND BEND FROM "Y" | | | | 3RD BEND FROM "Y" | | | | 4TH BEND FROM "Y" | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DIST FROM "Y" END | RAD. | BEND DEG. | DIAL ROT CW | DIST. FROM "Y" END | RAD. | BEND DEG. | DIAL ROT CW | DIST FROM "Y" END | RAD. | BEND DEG. | DIAL RTN CW | DIAL FROM "Y" END | RAD. | BEND DEG. | DIAL RTN CW |
| 1.00 | 0.094 | 90 | 0 | 3.50 | 0.094 | 19 | 270 | 4.87 | 0.094 | 90 | 270 | 7.75 | 0.094 | 135 | 135 |
| 5TH BEND FROM "Y" | | | | 6TH BEND FROM "Y" | | | | | | | | | | | |
| 12.50 | 0.094 | 90 | 180 | 22.00 | 0.094 | 35 | 0 | | | | | | | | |

| TUBE ASSY PART NUMBER | FABRICATE FROM NSN | STOCK DIM. | END FITTING | | | |
|---|---|---|---|---|---|---|
| | | | NUT NSN | NO. REQ. | SLEEVE NSN | NO. REQ. |
| 204-060-020-207 | 4710-00-278-6398 | 1/4 x 0.028 x 46.00 | 4730-00-278-0289 | 1 | 4730-00-302-8641 | 1 |

| 1 ST BEND | | | 2ND BEND | | | | 3RD BEND | | | | 4TH BEND | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DIST A | RAD. | BEND DEG. | DIST A | RAD. | TURN ANG. | BEND DEG. | DIST A | RAD. | TURN ANG. | BEND DEG. | DIST A | RAD. | TURN ANG | BEND DEG. |
| 44.75 | 0.56 | 82 | 40.25 | 0.56 | 175R | 58 | 30.00 | 0.56 | 5R | 25 | 20.75 | 0.56 | 0 | 22 |
| 5TH BEND | | | 6TH BEND | | | | | | | | | | | |
| 11 | 0.56 | 5R | 35 | 2.62 | 0.56 | 180 | 55 | | | | | | | |

Figure D-25.

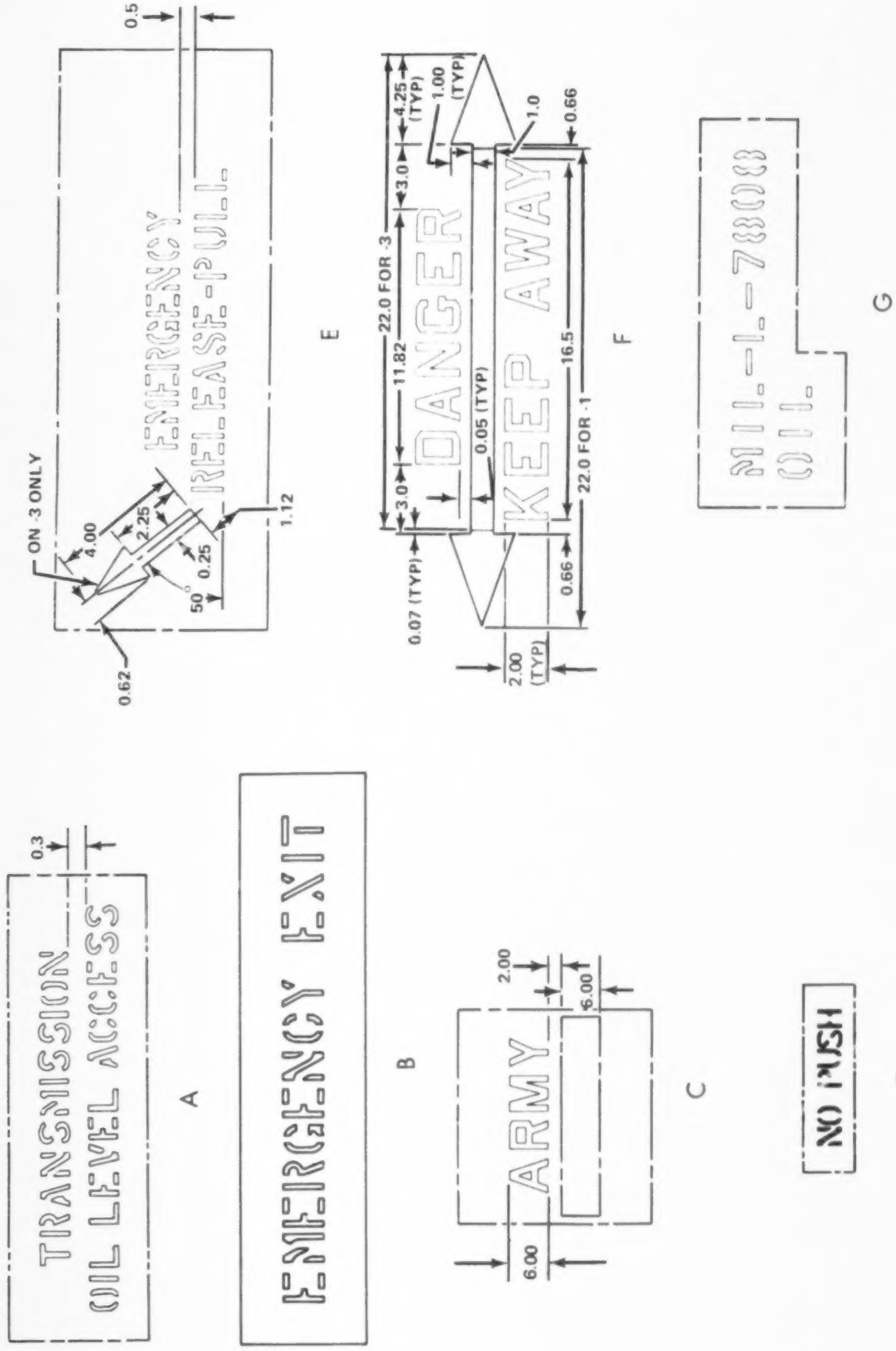

TRANSMISSION
OIL LEVEL ACCESS
0.3
A
EMERGENCY EXIT
B
ARMY
2.00
6.00
6.00
C
NO PUSH
D
EMERGENCY
RELEASE-PULL
ON -3 ONLY
4.00
2.25
0.25
50°
1.12
0.62
0.5
E
DANGER
KEEP AWAY
22.0 FOR -3
11.82
3.0
3.0
4.25 (TYP)
1.00 (TYP)
1.0
0.66
0.66
0.05 (TYP)
0.07 (TYP)
16.5
22.0 FOR -1
2.00 (TYP)
F
MIL-L-7808
OIL
G

Figure D-26. (Sheet 1 of 3)

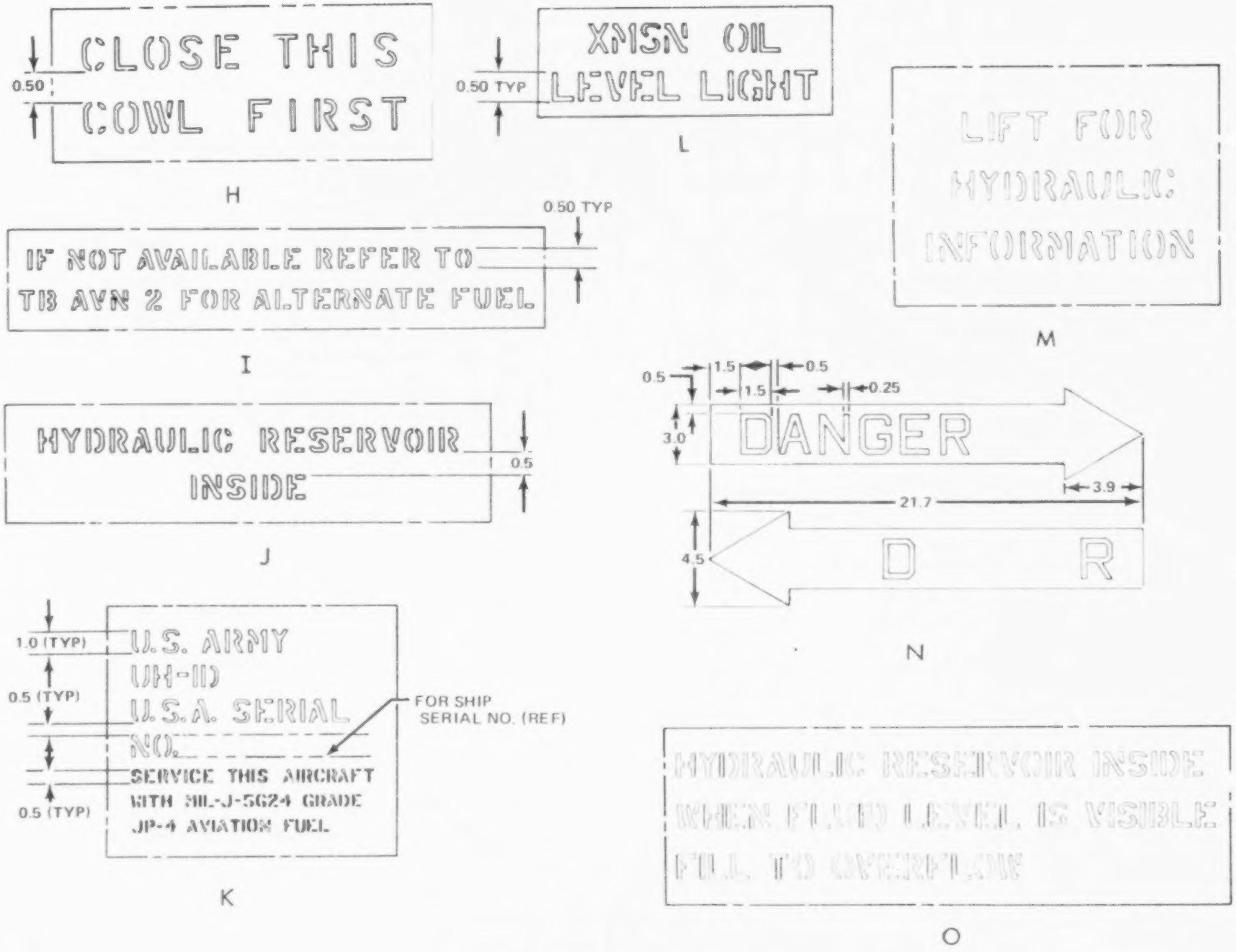
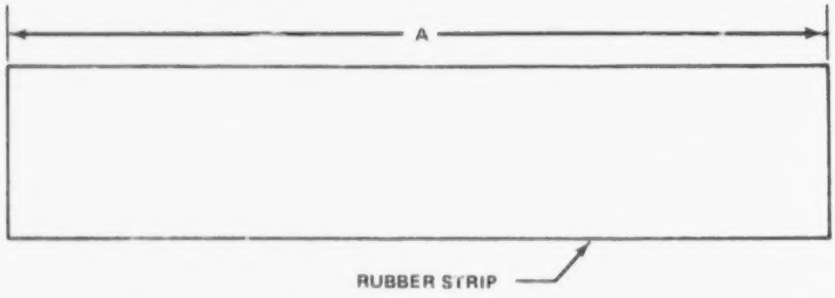

CLOSE THIS
COWL FIRST
0.50
H
XMSN OIL
LEVEL LIGHT
0.50 TYP
L
LIFT FOR
HYDRAULIC
INFORMATION
M
IF NOT AVAILABLE REFER TO
TB AVN 2 FOR ALTERNATE FUEL
0.50 TYP
I
HYDRAULIC RESERVOIR
INSIDE
0.5
J
DANGER
D
R
0.5
1.5
1.5
0.5
0.25
3.0
3.9
21.7
4.5
N
U.S. ARMY
UH-1D
U.S.A. SERIAL
NO.
SERVICE THIS AIRCRAFT
WITH MIL-J-5624 GRADE
JP-4 AVIATION FUEL
FOR SHIP SERIAL NO. (REF)
1.0 (TYP)
0.5 (TYP)
0.5 (TYP)
K
HYDRAULIC RESERVOIR INSIDE
WHEN FLUID LEVEL IS VISIBLE
FILL TO OVERFLOW
O

Figure D-26. (Sheet 2 of 3)

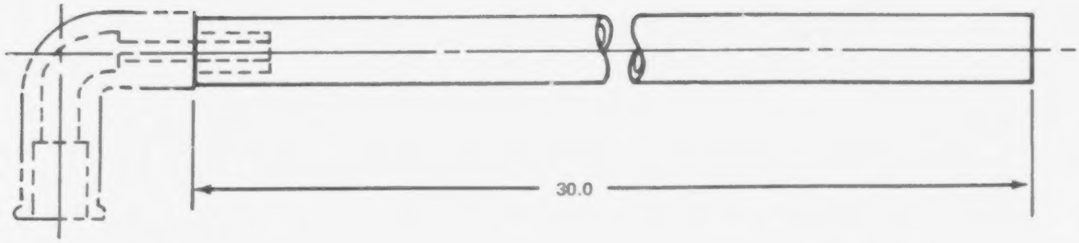
| PART NUMBER | FABRICATE FROM NSN | REF LETTER | NOTES: |
|---|---|---|---|
| 204-040-671-1 | 9310-00-265-6797 | A | LETTERS TO BE 0.50 IN. HIGH, SPACED APPROX AS SHN |
| 204-070-343-1 | 9310-00-265-6797 | B | LETTERS TO BE 1.00 IN. HIGH, SPACED APPROX AS SHN |
| 204-070-794-1 | 9310-00-265-6797 | C | LETTERS TO BE 6.00 IN. HIGH, SPACED APPROX AS SHN |
| 204-070-798-1 | 9310-00-265-6797 | D | LETTERS TO BE 0.50 IN. HIGH, SPACED APPROX AS SHN SHN |
| 204-070-812-3 | 9310-00-265-6797 | E | LETTERS TO BE 1.00 IN. HIGH, SPACED APPROX AS SHN SHN |
| 204-070-818-1 | 9310-00-265-6797 | F | |
| 204-070-818-3 | 9310-00-265-6797 | F | |
| 205-040-164-1 | 9310-00-265-6797 | G | |
| 205-070-226-1 | 9310-00-265-6797 | H | LETTERS TO BE 0.50 IN. HIGH, SPACED APPROX AS SHN |
| 205-070-801-1 | 9310-00-265-6797 | I | LETTERS TO BE 0.50 IN. HIGH, SPACED APPROX AS SHN |
| 205-070-810-1 | 9310-00-265-6797 | J | LETTERS TO BE 0.50 IN. HIGH, SPACED APPROX AS SHN |
| 205-070-829-1 | 9310-00-265-6797 | K | |
| 205-070-840-1 | 9310-00-265-6797 | L | LETTERS TO BE 0.50 IN. HIGH, SPACED APPROX AS SHN |
| 205-070-850-1 | 9310-00-265-6797 | M | LETTERS TO BE 0.50 IN. HIGH, SPACED APPROX AS SHN |
| 205-070-853-1 | 9310-00-265-6797 | N | |
| 205-070-853-3 | 9310-00-265-6797 | N | |
| 205-070-859-1 | 9310-00-265-6797 | O | LETTERS TO BE 0.50 IN. HIGH, SPACED APPROX AS SHN |

Figure D-26. (Sheet 3 of 3)



| PART NUMBER | NOMENCLATURE | FABRICATE FROM NSN | A |
|---|---|---|---|
| 204-030-853-73 | RUBBER STRIP | 9320-00-880-4520 | 50.000 |
| 204-030-853-83 | RUBBER STRIP | 9320-00-880-4520 | 53.500 |
| 204-030-853-85 | RUBBER STRIP | 9320-00-880-4520 | 22.000 |
| 204-030-853-111 | RUBBER STRIP | 9320-00-880-4520 | 3.000 |
| 204-030-853-113 | RUBBER STRIP | 9320-00-880-4520 | 8.300 |
| 204-030-853-115 | RUBBER STRIP | 9320-00-880-4520 | 7.700 |
| 204-030-853-117 | RUBBER STRIP | 9320-00-880-4520 | 18.500 |

Figure D-27.

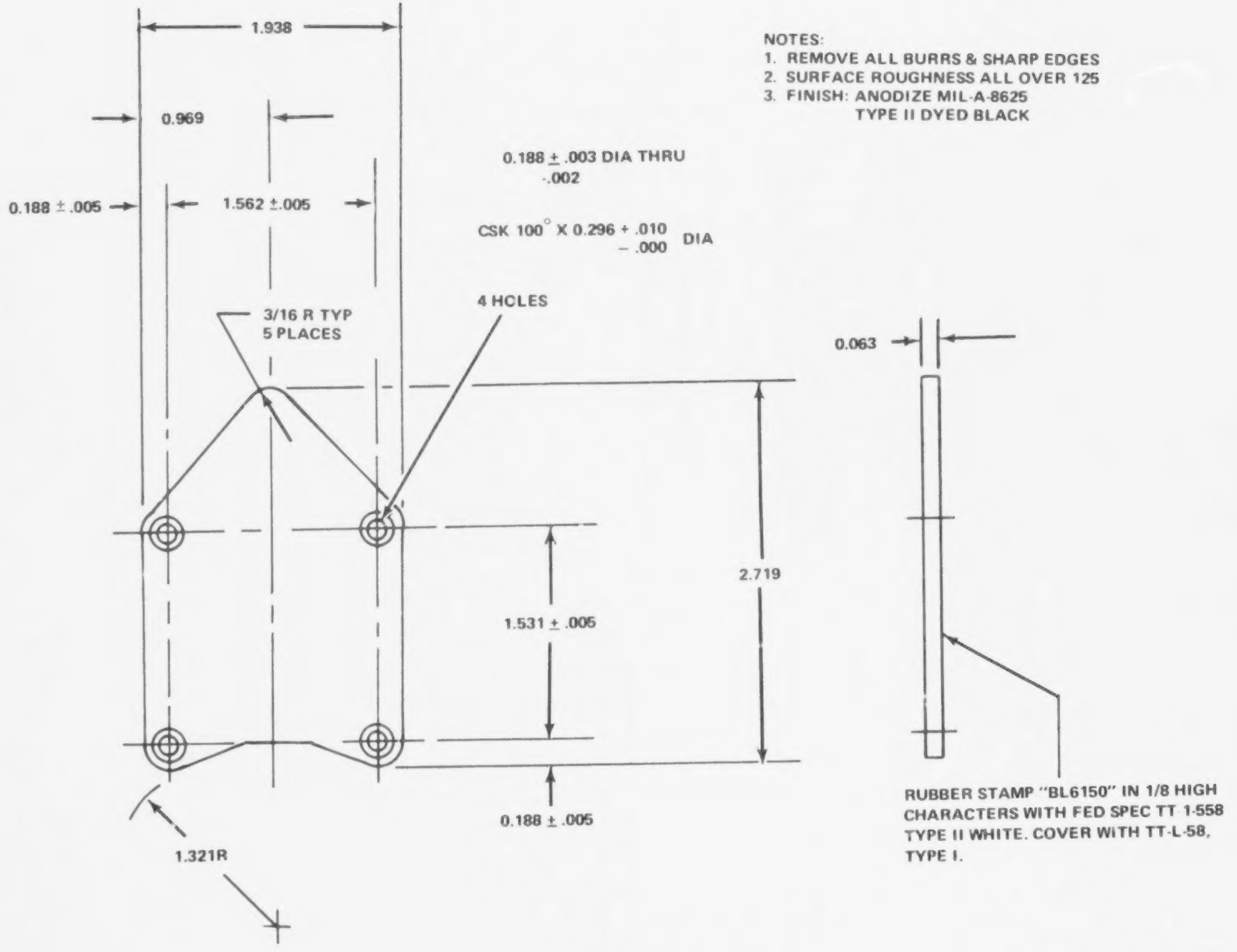


NOTES:

1. RUBBER, MIL-R-6855, CLASS II, GRADE 60, BLACK. - MAY BE USED AS AN ALTERNATE CLEAN SURFACES TO BE BONDED WITH
2. ACETONE, CHEM PURE, OR METHYL ETHYL KETONE. CHEM PURE

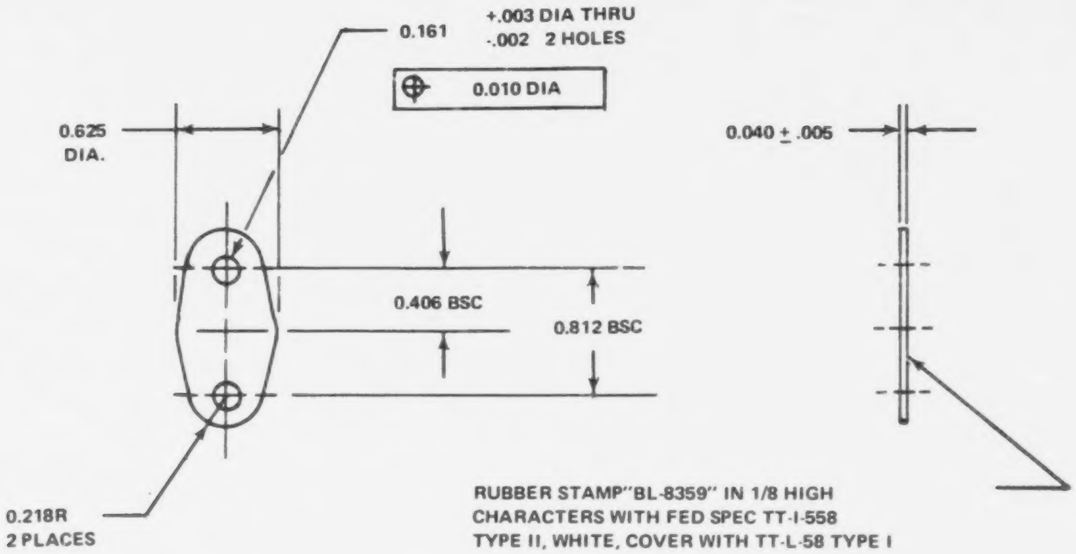
| Figure D-28. | Part Number | 204-075-173-35, TUBING, Rubber |
|---|---|---|
| | Fabricate from: | NSN 4720-00-231-2483 |
| | Material: | Tubing, Rubber, Natural, Federal Specification, 28-T-831 Grade A, 0.125 Inch Wall Thickness |

NOTES:
1. REMOVE ALL BURRS & SHARP EDGES
2. SURFACE ROUGHNESS ALL OVER 125
3. FINISH: ANODIZE MIL-A-8625
   TYPE II DYED BLACK


1.938
0.969
0.188 ± .005
1.562 ±.005
0.188 ± .003 DIA THRU
-.002
CSK 100° X 0.296 + .010
− .000 DIA
3/16 R TYP
5 PLACES
4 HOLES
0.063
2.719
1.531 ± .005
0.188 ± .005
1.321R

RUBBER STAMP "BL6150" IN 1/8 HIGH CHARACTERS WITH FED SPEC TT-1-558 TYPE II WHITE. COVER WITH TT-L-58, TYPE I.

Figure D-29. Part Number BL6150 COVER, IDLE GEAR
Fabricate from : NSN 9535-00-232-0378
Material: 2024 AL ALY Sheet, Federal Specification, QQ-A-250/5


0.161
+.003 DIA THRU
-.002 2 HOLES
0.010 DIA
0.625
DIA.
0.040 ± .005
0.406 BSC
0.812 BSC
0.218R
2 PLACES

RUBBER STAMP "BL-8359" IN 1/8 HIGH CHARACTERS WITH FED SPEC TT-I-558 TYPE II, WHITE, COVER WITH TT-L-58 TYPE I

NOTES:

1. REMOVE ALL BURRS & SHARP EDGES
2. SURFACE ROUGHNESS AS ROLLED OR DRAWN PUNCHED, CUT OR MACHINED SURFACES TO HAVE 125
3. FINISH: ANODIZED PER MIL-A-8625 TYPE II, DYE BLACK

**Figure D-30.** Part Number BL8359 COVER, TENSION ROLL
Fabricate from: NSN 9535-00-167-2280
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.040 Inch Thick

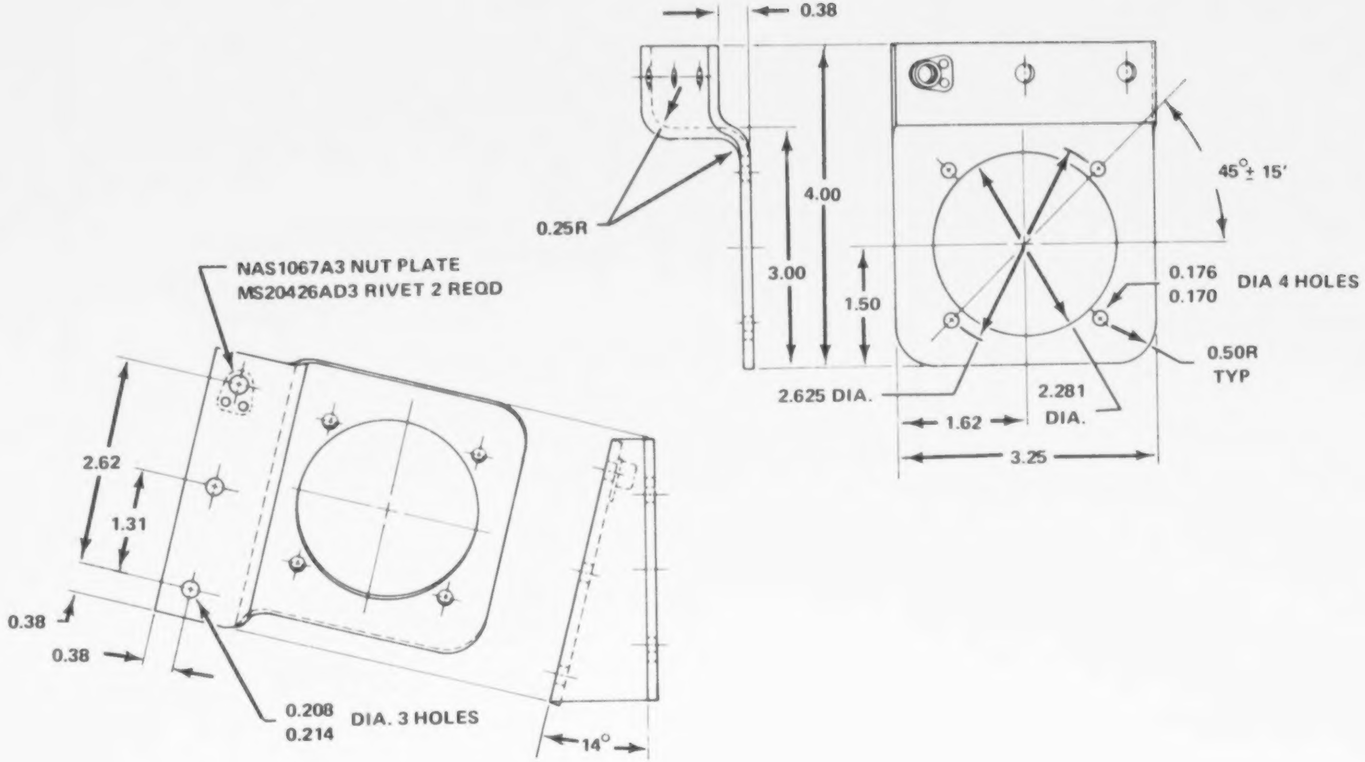

0.38
0.25R
4.00
3.00
1.50
45° ± 15'
0.176
0.170
DIA 4 HOLES
0.50R
TYP
2.625 DIA.
2.281
DIA.
1.62
3.25
NAS1067A3 NUT PLATE
MS20426AD3 RIVET 2 REQD
2.62
1.31
0.38
0.38
0.208
0.214
DIA. 3 HOLES
14°

Figure D-31. Part Number 204-070-476-1 BRACKET ASSEMBLY, Standby Compass
Fabricate from: NSN 9535-00-232-0418, NSN 5310-00-021-3884
Material: 2024 AL ALY, Sheet Federal Specification, QQ-A-250/5, 0.125 Inch Thick

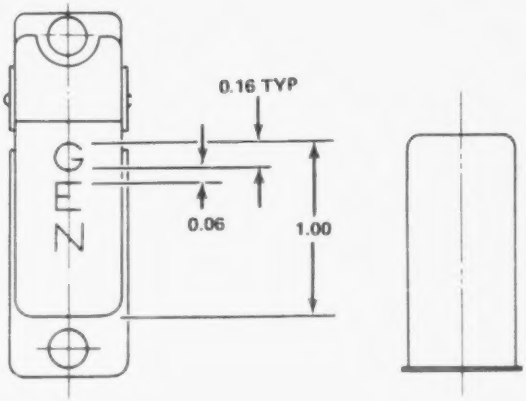

0.16 TYP
G
E
N
0.06
1.00

**Figure D-32.** Part Number: 204-075-207-3 SWITCH GUARD
Fabricate from: NSN 5930-00-681-4897
Material: Switch Guard - Make From P/N 8497K2, Switch Guard, Cutler Hammer Milwaukee, Wisc. Code Ident No. 15605

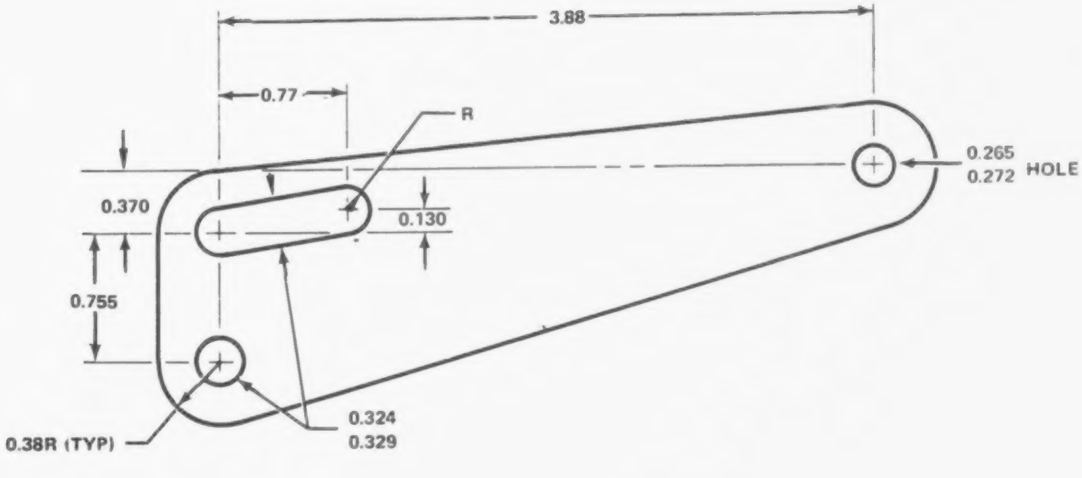

3.88
0.77
R
0.265
0.272
HOLE
0.370
0.130
0.755
0.38R (TYP)
0.324
0.329

**Figure D-33.** Part Number: 204-070-855-7 PLATE - Cable Guide
Fabricate from: NSN 9535-00-232-0405
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.090 Inch Thick

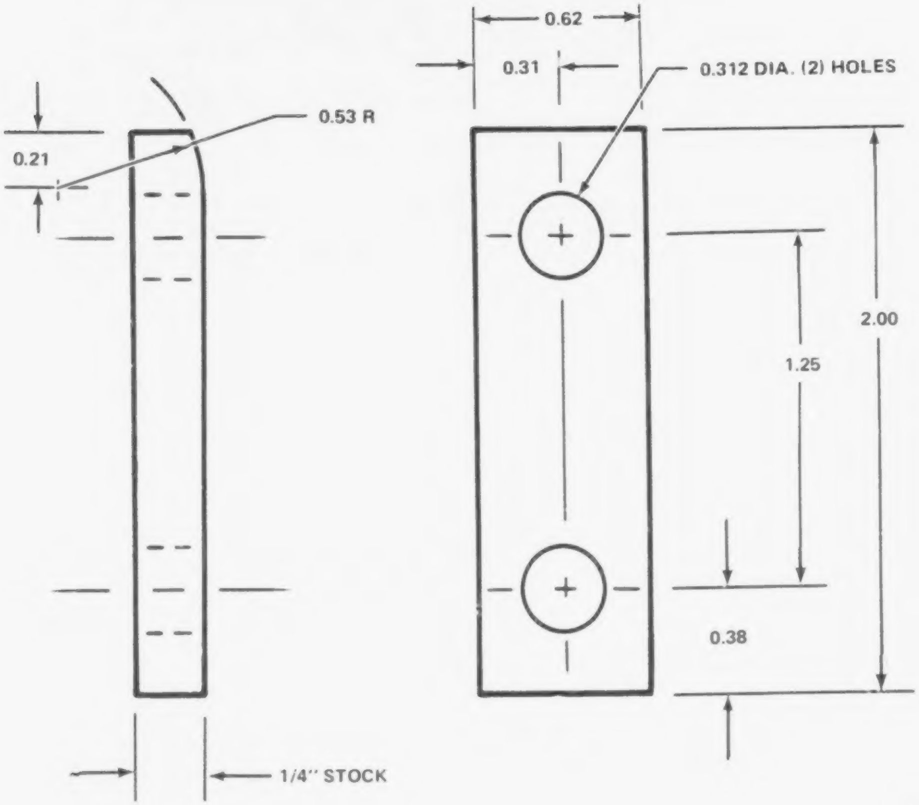
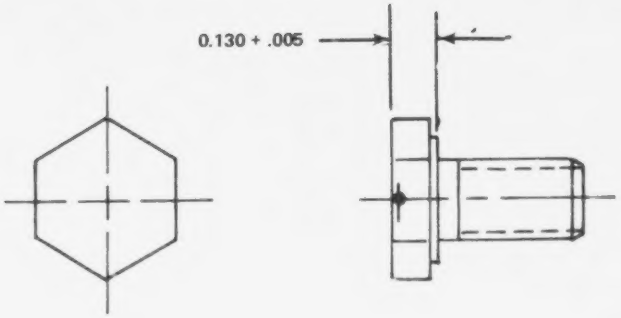

0.62
0.31
0.312 DIA. (2) HOLES
0.53 R
0.21
2.00
1.25
0.38
1/4" STOCK

**Figure D-34.** Part Number 204-070-904-1 SPACER, Block-head Guard
Fabricate from: NSN 9330-00-260-3806
Material: Plastic Sheet Phenolic, Federal Specification MIL-P-15035 TYPE FBG 0.1875 Inch Thick



NOTES:
1. REMOVE ALL BURRS & SHARP EDGES
2. GRIND OR CUT HEAD OF BOLT TO DIM SHOWN

**Figure D-35.** Part Number BL8458 BOLT, MACHINE
Fabricate from: NSN 5306-00-180-2777
Material: Bolt, Machine, Cres. Passivated Finish, Make from AN4CN3A Bolt

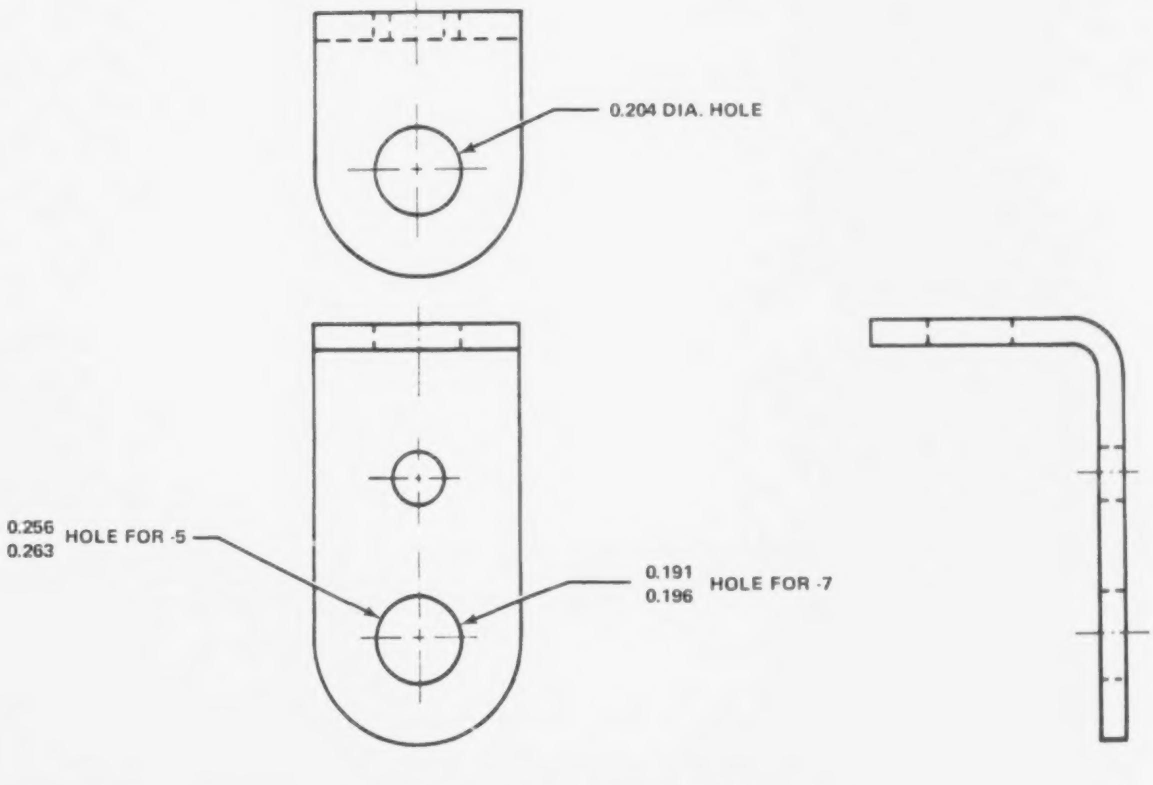
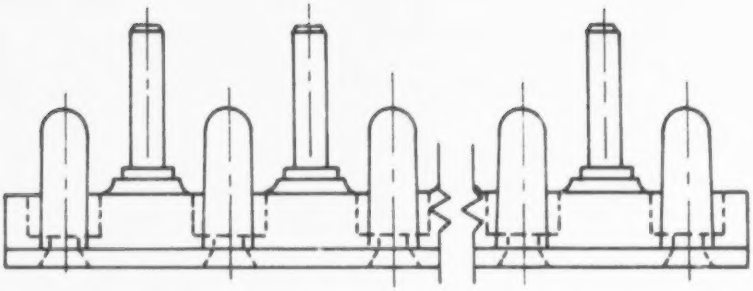

0.204 DIA. HOLE
0.256
0.263
HOLE FOR -5
0.191
0.196
HOLE FOR -7

**Figure D-36.** Part Number 204-075-143-5 & 7 BRACKET, Plug Mounting
Fabricate from: NSN 9535-00-232-0378
Material: 2024 AL ALY Sheet, Federal Specification, QQ-A-250/5, 0.063 Inch Thick



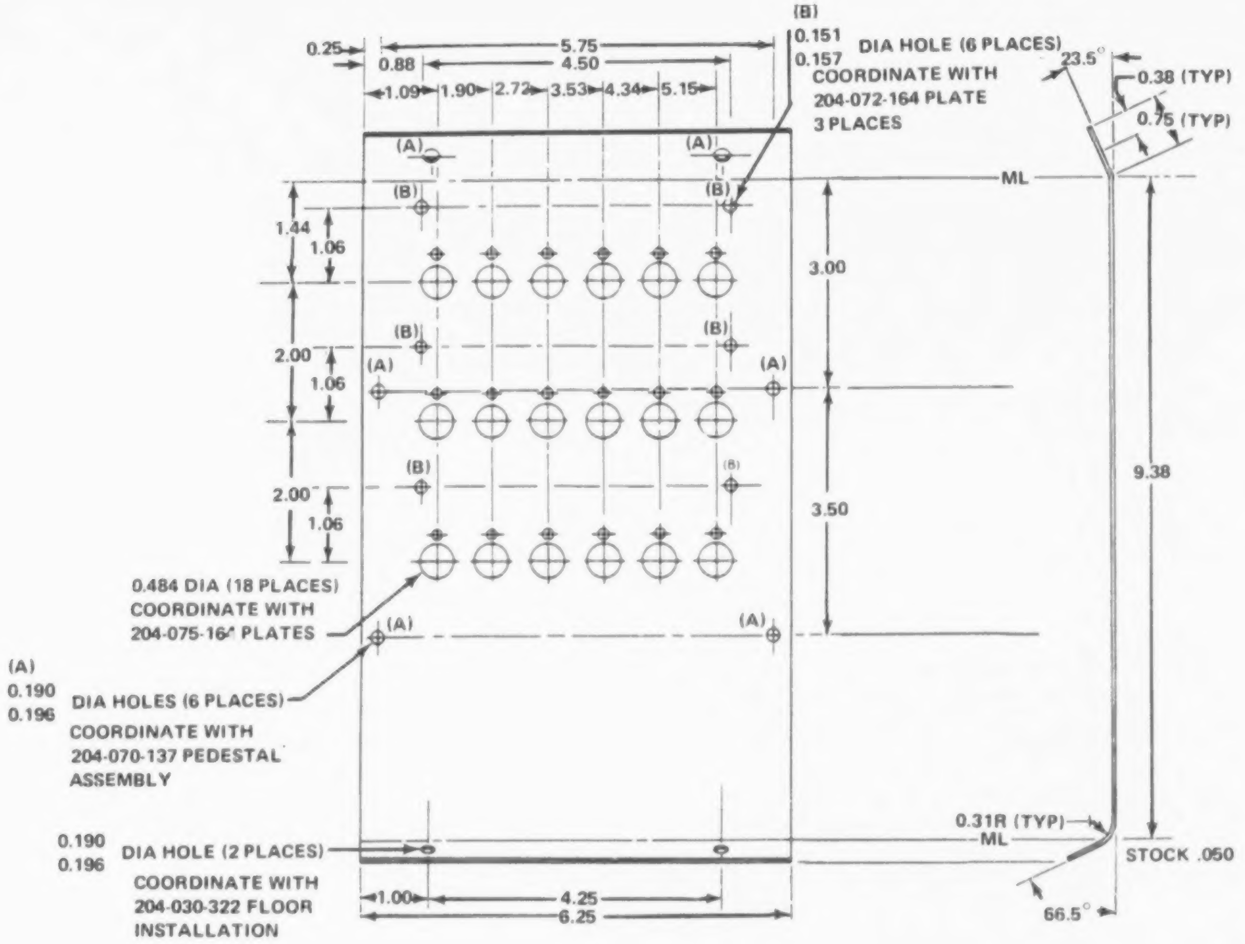
| PART NUMBER | FABRICATE FROM NSN |
|---|---|
| MS27212-1-3 | 5940-00-950-1610 |
| MS27212-1-9 | 5940-00-950-1610 |
| MS27212-1-10 | 5940-00-950-1610 |
| MS27212-1-12 | 5940-00-950-1610 |
| MS27212-1-14 | 5940-00-950-1610 |
| MS27212-1-15 | 5940-00-950-1610 |

NOTES:

1. LAST DASH NUMBER INDICATES NUMBER OF STUDS.
2. ALLOWANCE MUST BE MADE FOR THE LOSS OF ONE STUD FOR EACH CUT.

TERMINAL BLOCK

Figure D-37.


(B)
0.151
0.157
DIA HOLE (6 PLACES)
COORDINATE WITH
204-072-164 PLATE
3 PLACES
0.25
5.75
0.88
4.50
1.09
1.90
2.72
3.53
4.34
5.15
23.5°
0.38 (TYP)
0.75 (TYP)
(A)
(A)
(B)
(B)
ML
1.44
1.06
3.00
(B)
(B)
(A)
(A)
2.00
1.06
(B)
(B)
2.00
1.06
3.50
9.38
0.484 DIA (18 PLACES)
COORDINATE WITH
204-075-164 PLATES
(A)
(A)
(A)
0.190
0.196
DIA HOLES (6 PLACES)
COORDINATE WITH
204-070-137 PEDESTAL
ASSEMBLY
0.190
0.196
DIA HOLE (2 PLACES)
COORDINATE WITH
204-030-322 FLOOR
INSTALLATION
0.31R (TYP)
ML
STOCK .050
1.00
4.25
6.25
66.5°

| **Figure D-38.** | Part Number | 204-075-163-1 PANEL, A.C. Circuit Breakers Pedestal |
|---|---|---|
| | Fabricate from: | NSN 9535-00-554-1412 |
| | Material: | 2024 AL ALY Sheet, Federal Specification QQ-A-362, 0.050 Inch Thick |

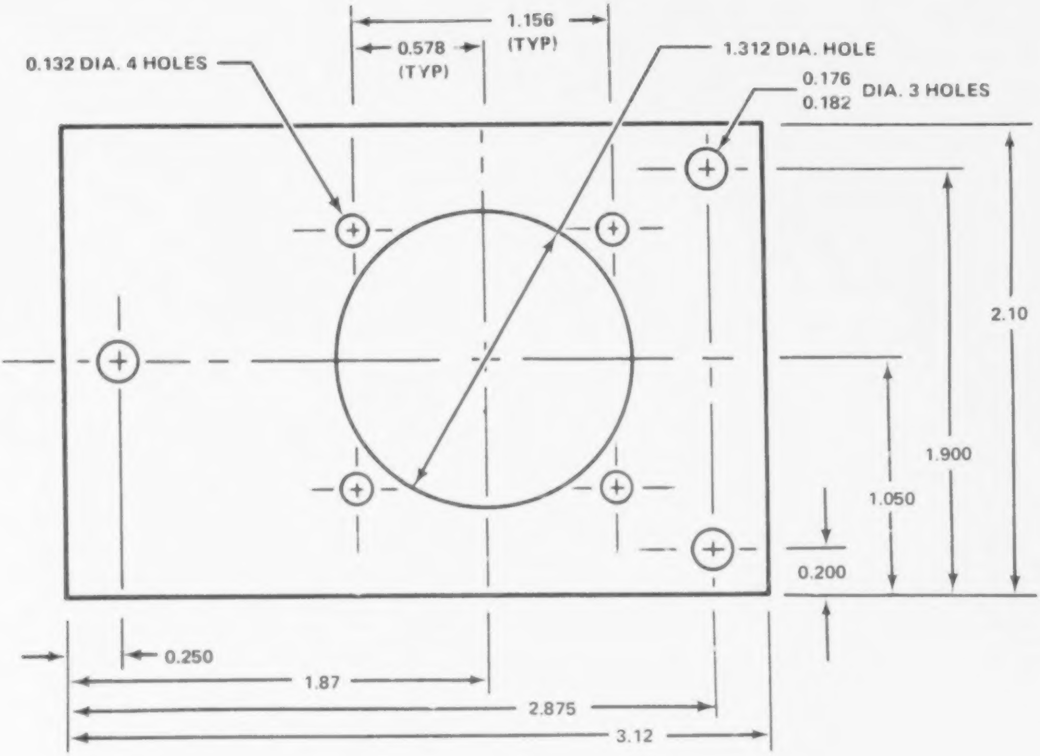

1.156 (TYP)
0.578 (TYP)
0.132 DIA. 4 HOLES
1.312 DIA. HOLE
0.176
0.182 DIA. 3 HOLES
2.10
1.900
1.050
0.200
0.250
1.87
2.875
3.12

Figure D-39. Part Number 204-075-243-1 PLATE RECEPTACLE, Control Panel
Fabricate from: NSN 9535-00-086-9729
Material: 2024 AL ALY Sheet, Federal Specification, QQ-A-250/5, 0.032 Inch Thick

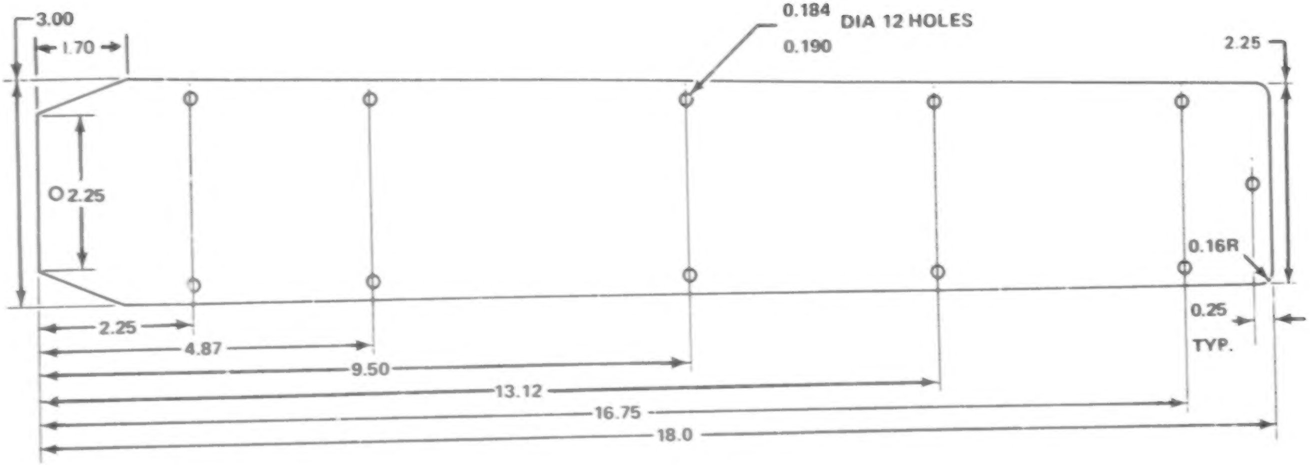
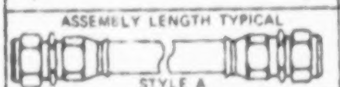
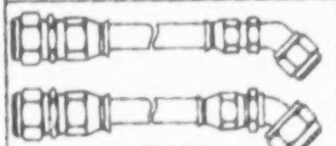
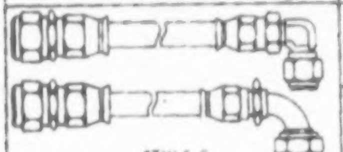
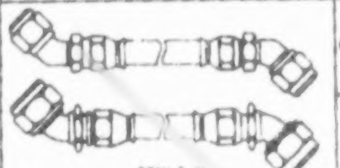
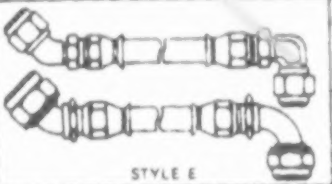
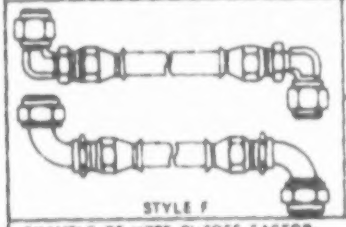

3.00
1.70
0.184
0.190
DIA 12 HOLES
2.25
O 2.25
0.16R
0.25
TYP.
2.25
4.87
9.50
13.12
16.75
18.0

Figure D-40.
Part Number 204-030-853-133 DOOR
Fabricate from: NSN 9535-00-086-9729
Material: 2024 AL ALY, Sheet Federal Specification, QQ-A-250/5, 0.032 Inch Thick

**CAUTION**

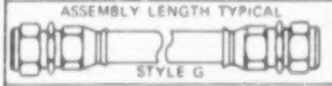
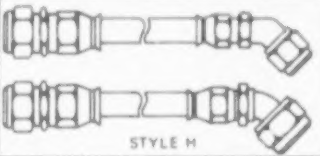
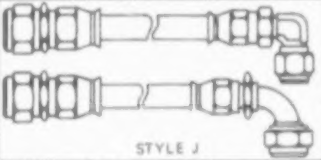
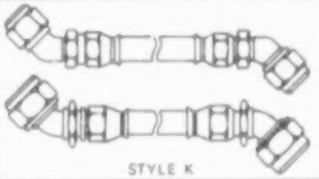
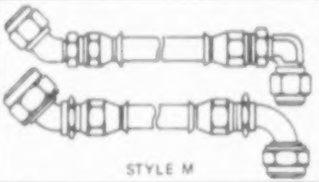
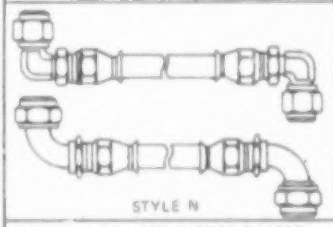
**Use Teflon hose, NSN 4720-00-857-1732, when making fuel hose assemblies, P/N 640309-4-0250, MS8000E250C, MS8000E324C, and MS87028E216A.**

| CONFIGURATION AND MATERIAL CORROSION RESISTANT STEEL (450P) | FITTING ENDS (MIL F 27272) | | (MIL H 27267) HOSE CUT OFF FACTOR (HCOF) INCHES VS HOSE DASH SIZE NO | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 2 | 1 | 2 | 3C | 4C | 5C | 6C | 8C | 10C | 12C | 16C | 20C | 24C |
| ASSEMBLY LENGTH TYPICAL  STYLE A | MS27053 | MS27053 | 1.40 | 1.48 | 1.54 | 1.62 | 1.86 | 2.10 | 2.26 | 2.60 | 2.88 | 3.32 |
|  STYLE B | MS27053 | MS27059 | 1.78 | 1.92 | 1.99 | 2.10 | 2.72 | | | | | |
| | MS27053 | MS27065 | | | | | | 2.60 | [illegible] | [illegible] | [illegible] | [illegible] |
|  STYLE C | MS27053 | MS27060 | 1.58 | 1.65 | 1.74 | 1.94 | 2.24 | | | | | |
| | MS27053 | MS27057 | | | | | | 2.46 | 3.05 | 3.25 | 3.75 | [illegible] |
|  STYLE D | MS27059 | MS27059 | 2.16 | 2.36 | 2.44 | 2.58 | 3.56 | | | | | |
| | MS27065 | MS27065 | | | | | | 3.16 | 4.10 | 4.28 | 4.84 | 5.50 |
|  STYLE E | MS27059 | MS27060 | 1.94 | 2.09 | 2.19 | 2.31 | 2.10 | | | | | |
| | MS27065 | MS27057 | | | | | | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
|  STYLE F | MS27060 | MS27060 | 1.72 | 1.82 | 1.94 | 2.06 | 2.67 | | | | | |
| | MS27057 | MS27057 | | | | | | 2.82 | 3.84 | 4.10 | 4.66 | [illegible] |

EXAMPLE OF HOSE CUTOFF FACTOR:
FOR A -4, ¼ TUBE OD, 18½ ASSEMBLY LENGTH, STYLE D THE BULK
HOSE LENGTH 18.50 MINUS THE HCOF, = 18.50 - 2.36 = 16.14
BULK HOSE LENGTH NEEDED IS 16.14 INCHES.

FITTINGS TO MATE WITH PARTS DESIGNED TO MS33656

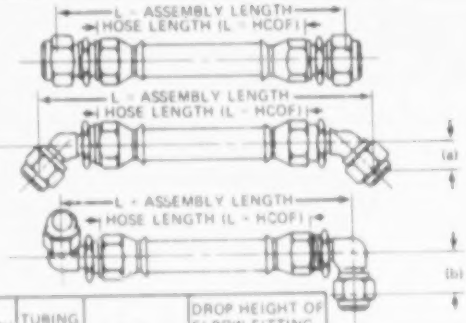
Figure D-41. Hose Assembly MS8000 Series (Sheet 1 of 9)

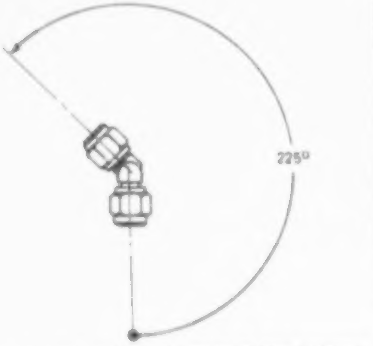
| CONFIGURATION AND MATERIAL COMBINATION ALUMINUM AND CORROSION RESISTANT STEEL (275°F) | FITTING ENDS (MIL-F-27272) | | (MIL-H-27267) HOSE CUT OFF FACTOR (HCOF) INCHES VS HOSE DASH SIZE NO. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 2 | 1 | 2 | | | | | 8C | 10C | 12C | 16C | 20C | 24C |
|  | MS27053 | MS27053 | | | | | 1.86 | 2.10 | 2.26 | 2.60 | 2.88 | 3.32 |
|  | MS27053 | MS27059 | | | | | 2.72 | | | | | |
| | MS27053 | MS27055 | | | | | | 2.63 | 3.16 | 3.44 | 3.86 | 4.41 |
|  | MS27053 | MS27060 | | | | | 2.24 | | | | | |
| | MS27053 | MS27057 | | | | | | 2.46 | 3.06 | 3.35 | 3.78 | 4.34 |
|  | MS27059 | MS27059 | | | | | 3.58 | | | | | |
| | MS27055 | MS27055 | | | | | | 3.16 | 4.10 | 4.28 | 4.84 | 5.50 |
|  | MS27059 | MS27060 | | | | | 3.10 | | | | | |
| | MS27055 | MS27057 | | | | | | 2.99 | 3.97 | 4.19 | 4.76 | 5.43 |
|  | MS27060 | MS27060 | | | | | 2.62 | | | | | |
| | MS27057 | MS27057 | | | | | | 2.82 | 3.84 | 4.10 | 4.68 | 5.36 |

EXAMPLE OF HOSE CUTOFF FACTOR
FOR A -8, 1/2 TUBE OD, 18 1/2 ASSEMBLY LENGTH, STYLE K THE BULK HOSE LENGTH = 18.50 MINUS THE HCOF, = 18.50 -3.58 = 14.92
BULK HOSE LENGTH NEEDED IS 14.92 INCHES.

FITTINGS TO MATE WITH PARTS DESIGNED TO MS33656

Figure D-41. Hose Assembly MS8000 Series (Sheet 2 of 9)





| DASH NO | TUBING OD REF | SIZE | DROP HEIGHT OF ELBOW FITTING | |
|---|---|---|---|---|
| | | | (a) | (b) |
| 3/4 | NOTE 2 | B | 283 | 530 |
| 4 | 1/4 | E | 322 | 580 |
| 5 | 5/16 | F | 340 | 655 |
| 6 | 3/8 | G | 389 | 720 |
| 8 | 1/2 | H | 465 | 830 |
| 10 | 5/8 | J | 536 | 1 126 |
| 12 | 3/4 | K | 623 | 1 376 |
| 16 | 1 | M | .660 | 1 500 |
| 20 | 1 1/4 | N | 768 | 1 782 |
| 24 | 1 1/2 | P | 867 | 2 032 |

EXAMPLE OF ANGULAR ALIGNMENT OF END FITTING

(ANGLE BETWEEN ELBOW FITTINGS, WHEN PROJECTED ON A PLANE PERPENDICULAR TO THE HOSE AXIS SHALL BE SPECIFIED SIGHTING ALONG THE AXIS OF THE HOSE. THE ANGLE SPECIFIED WILL BE THE ANGLE THAT THE FURTHEST FITTING SHOULD BE ROTATED COUNTERCLOCKWISE) TOLERANCE ON ANGULAR ALIGNMENT ± 2°

LENGTH L TO BE MEASURED BETWEEN CENTERS OF NIPPLE ENDS ALONG A STRAIGHT LINE PARALLEL TO HOSE LENGTH WITH HOSE LAID OUT HORIZONTALLY AND STRAIGHT
HOSE IN ACCORDANCE WITH MIL-H-27267

HOSE ASSEMBLY TO BE SPECIFIED IN INCHES AND IN THE FOLLOWING LENGTH INCREMENTS ONLY
UNDER 12 INCHES LONG, NOT LESS THAT 1/8 INCH (TOLERANCE ± 1/8)
12 TO 18 INCHES LONG, NOT LESS THAN 1/4 INCH (TOLERANCE ± 1/8)
OVER 18 INCHES LONG, NOT LESS THAN 1/2 INCH (TOLERANCE FOR LENGTHS FROM 18 TO 36 INCHES ± 1/4)
(TOLERANCE FOR LENGTHS FROM 36 TO 50 INCHES ± 1/2) (TOLERANCE FOR LENGTHS OVER 50 INCHES ± 1%)

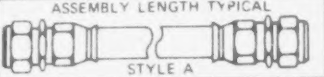
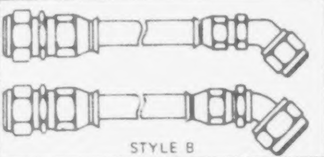
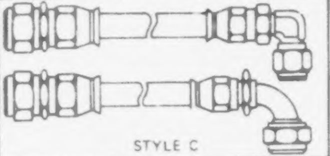
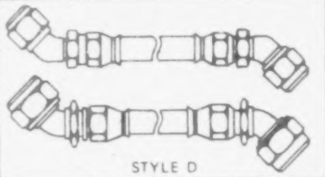
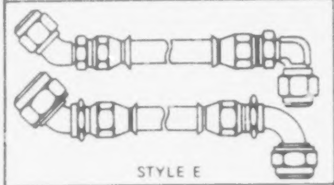
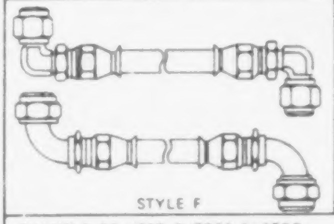
THE PART NO. SHALL BE FORMULATED TO REFLECT THE HOSE ASSEMBLY TUBE OD, LENGTH, STYLE AND ANGLE BETWEEN ELBOWS (AS APPLICABLE)

EXAMPLES OF PART NO.

MS8000H180FL030 HOSE ASSEMBLY FOR 1/2 INCH TUBE OD 18 INCHES IN LENGTH 30° BETWEEN ELBOWS
ANGLE BETWEEN ELBOWS IN DEGREES (NOT REQUIRED FOR STYLES A,B,C,G,H,J)
LOCKWIRE HOLE (IF REQD)
STYLE AND MATL OF FITTING ASSY (SEE SH 1 AND 2)
LENGTH IN EIGHTS (1/8) OF AN INCH,
LENGTH IN INCHES (FOR LENGTHS UNDER 10 INCHES USE 09,08,07, ETC.)
SIZE H = -8 OR 1/2 INCH TUBE OD

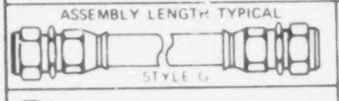
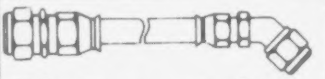
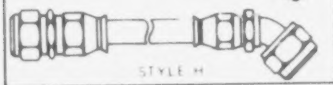
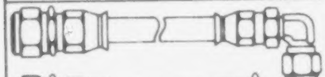
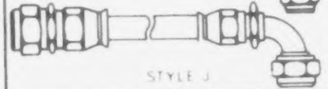
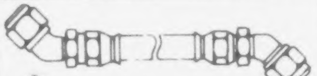
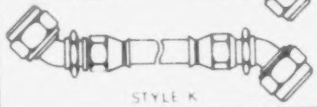
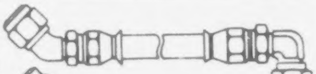
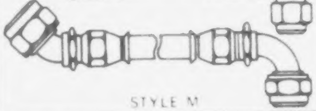
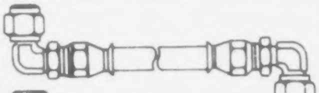
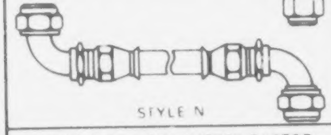
MS8000J092GL HOSE ASSEMBLY FOR 5/8 INCH TUBE OD 9 1/4 INCHES IN LENGTH
LOCKWIRE HOLE (IF REQD)
STYLE AND MATL OF FITTING ASSY (SEE SH 1 AND 2)
LENGTH IN EIGHTS (1/8) OF AN INCH
LENGTH IN INCHES
SIZE J = -10 OR 5/8 INCH TUBE OD

Figure D-41. Hose Assembly MS8000 Series (Sheet 3 of 9)

| CONFIGURATION AND MATERIAL CORROSION RESISTANT STEEL (450°F) | FITTING ENDS (MIL F 27272) | | (MIL H 27267) HOSE CUT OFF FACTOR (HCOF) INCHES VS HOSE DASH SIZE NO | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 2 | 1 | 2 | -3C | -4C | -5C | -6C | -8C | -10C | -12C | -16C | -20C | -24C |
| ASSEMBLY LENGTH TYPICAL  STYLE A | MS27381 | MS27381 | 1.84 | 1.78 | 1.86 | 2.04 | 2.32 | 2.64 | 2.80 | 3.16 | 3.44 | 4.14 |
|  STYLE B | MS27381 | MS27384 | 2.15 | 2.18 | 2.25 | 2.45 | 3.11 | | | | | |
| | MS27381 | MS27382 | | | | | | 3.09 | 3.63 | 3.91 | 4.33 | 5.10 |
|  STYLE C | MS27381 | MS27385 | 1.78 | 1.80 | 1.90 | 2.05 | 2.47 | | | | | |
| | MS27381 | MS27383 | | | | | | 2.73 | 3.32 | 3.63 | 4.06 | 4.75 |
|  STYLE D | MS27384 | MS27384 | 2.46 | 2.58 | 2.64 | 2.86 | 3.90 | | | | | |
| | MS27382 | MS27382 | | | | | | 3.54 | 4.46 | 4.66 | 5.22 | 6.06 |
|  STYLE E | MS27384 | MS27385 | 2.09 | 2.20 | 2.29 | 2.46 | 3.26 | | | | | |
| | MS27382 | MS27383 | | | | | | 3.18 | 4.15 | 4.38 | 4.95 | 5.71 |
|  STYLE F | MS27385 | MS27385 | 1.72 | 1.82 | 1.94 | 2.06 | 2.62 | | | | | |
| | MS27383 | MS27383 | | | | | | 2.82 | 3.84 | 4.10 | 4.68 | 5.36 |

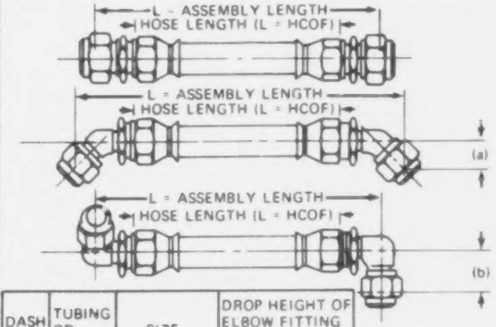
EXAMPLE OF HOSE CUTOFF FACTOR
FOR A -6, 3/8 TUBE OD, 20 1/2 ASSEMBLY LENGTH, STYLE A THE BULK HOSE
LENGTH = 20.50 MINUS THE HCOF. = 20.50 - 2.04 = 18.46
BULK HOSE LENGTH NEEDED IS 18.46 INCHES

Figure D-41. Hose Assembly MS8001 Series (Sheet 4 of 9)

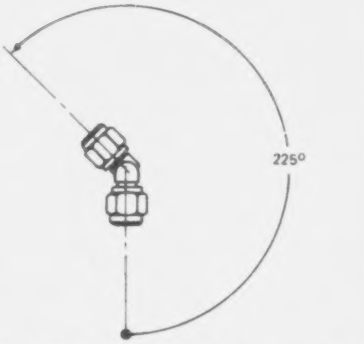
| CONFIGURATION AND MATERIAL COMBINATION ALUMINUM AND CORROSION RESISTANT STEEL (275°) | FITTING ENDS (MIL F 27272) | | (MIL H 27267) HOSE CUT OFF FACTOR (HCOF) INCHES VS HOSE DASH SIZE NO | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 2 | 1 | 2 | | | | | 8C | 10C | 12C | 16C | 20C | 24C |
|  | MS27381 | MS27381 | | | | | 2.32 | 2 64 | 2 80 | 3 16 | 3 44 | 4 14 |
|  | MS27381 | MS27384 | | | | | 3.11 | | | | | |
|  | MS27381 | MS27382 | | | | | | 3.09 | 3 63 | 3.81 | 4 33 | 5 10 |
|  | MS27381 | MS27383 | | | | | 2 47 | | | | | |
|  | MS27381 | MS27383 | | | | | | 2 73 | 3 32 | 3 63 | 4 06 | 4 75 |
|  | MS27384 | MS27384 | | | | | 3 90 | | | | | |
|  | MS27382 | MS27382 | | | | | | 3 54 | 4 46 | 4 66 | 5 22 | 6 06 |
|  | MS27384 | MS27385 | | | | | 3.26 | | | | | |
|  | MS27382 | MS27383 | | | | | | 3.18 | 4 15 | 4 38 | 4 95 | 5 71 |
|  | MS27385 | MS27385 | | | | | 2 62 | | | | | |
|  | MS27383 | MS27383 | | | | | | 2 82 | 3 84 | 4 10 | 4 68 | 5 36 |

EXAMPLE OF HOSE CUTOFF FACTOR
FOR A -8, 1/2 TUBE OD, 20 1/2 ASSEMBLY LENGTH, STYLE G THE BULK HOSE
LENGTH = 20.50 MINUS THE HCOF. = 20 50 - 2 32 = 18 18
BULK HOSE LENGTH NEEDED IS 18 18 INCHES

Figure D-41. Hose Assembly MS8001 Series (Sheet 5 of 9)



| DASH NO. | TUBING OD REF. | SIZE | DROP HEIGHT OF ELBOW FITTING | |
|---|---|---|---|---|
| | | | (a) | (b) |
| -3/4 | NOTE 2 | B | 432 | 741 |
| -4 | 1/4 | E | 424 | .725 |
| -5 | 5/16 | F | 448 | .808 |
| -6 | 3/8 | G | .526 | .915 |
| -8 | 1/2 | H | .622 | 1.052 |
| -10 | 5/8 | J | .725 | 1.392 |
| -12 | 3/4 | K | .800 | 1.626 |
| -16 | 1 | M | .854 | 1.776 |
| -20 | 1 - 1/4 | N | .962 | 2.050 |
| -24 | 1 - 1/2 | P | 1.155 | 2.438 |



EXAMPLE OF ANGULAR ALIGNMENT OF END FITTING

ANGLE BETWEEN ELBOW FITTINGS, WHEN PROJECTED ON A PLANE PERPENDICULAR TO THE HOSE AXIS SHALL BE SPECIFIED. SIGHTING ALONG THE AXIS OF THE HOSE, THE ANGLE SPECIFIED WILL BE ROTATED COUNTERCLOCKWISE. TOLERANCE ON ANGULAR ALIGNMENT ±2°

LENGTH L TO BE MEASURED BETWEEN CENTERS OF NIPPLE ENDS ALONG A STRAIGHT LINE PARALLEL TO HOSE LENGTH WITH HOSE LAID OUT HORIZONTALLY AND STRAIGHT
HOSE IN ACCORDANCE WITH MIL-H-27267

HOSE ASSEMBLY TO BE SPECIFIED IN INCHES AND IN THE FOLLOWING LENGTH INCREMENTS ONLY
UNDER 12 INCHES LONG, NOT LESS THAT 1/8 INCH (TOLERANCE ± 1/8)
12 TO 18 INCHES LONG, NOT LESS THAN 1/4 INCH (TOLERANCE ± 1/8)
OVER 18 INCHES LONG, NOT LESS THAN 1/2 INCH (TOLERANCE FOR LENGTHS FROM 18 TO 36 INCHES ± 1/4)
(TOLERANCE FOR LENGTHS FROM 36 TO 50 INCHES ± 1/2) (TOLERANCE FOR LENGTHS OVER 50 INCHES ± 1%)

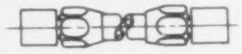
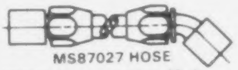
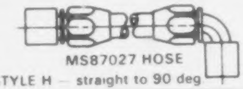
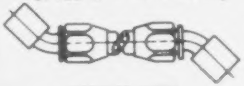
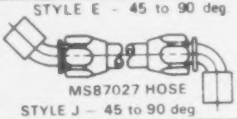
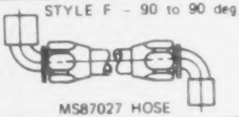
THE PART NO. SHALL BE FORMULATED TO REFLECT THE HOSE ASSEMBLY TUBE OD, LENGTH, STYLE AND ANGLE BETWEEN ELBOWS (AS APPLICABLE)

EXAMPLES OF PART NO.

MS8001K370EL030 HOSE ASSEMBLY FOR
3/4 INCH TUBE OD 37 INCHES IN LENGTH
30° BETWEEN ELBOWS.
ANGLE BETWEEN ELBOWS IN DEGREES
(NOT REQUIRED FOR STYLES A, B, C, G, H, J)
LOCKWIRE HOLE (IF REQD)
STYLE AND MATL OF FITTING ASSY (SEE SH 1 AND 2)
LENGTH IN EIGHTS (1/8) OF AN INCH.
LENGTH IN INCHES (FOR LENGTHS UNDER
10 INCHES USE 09, 08, 07 ETC.
SIZE K = -12 OR 3/4 INCH TUBE OD

MS8001K204HL HOSE ASSEMBLY FOR
3/4 INCH TUBE OD
20 1/2 INCHES IN LENGTH
LOCKWIRE HOLE (IF REQD)
STYLE AND MATL OF FITTING
ASSY (SEE SH 1 AND 2)
LENGTH IN EIGHTS (1/8) OF
AN INCH
LENGTH IN INCHES (FOR LENGTHS
UNDER 10 INCHES USE 09, 08, ETC)
SIZE K = -12 OR 3/4
INCH TUBE OD

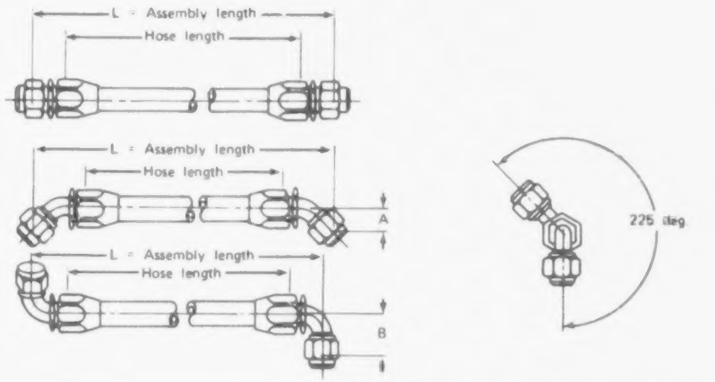
Figure D-41. Hose Assembly MS8001 Series (Sheet 6 of 9)

| HOSE ASSEMBLY | | MS87028 | MS87029 | MS87030 | MS87031 | MS87032 |
|---|---|---|---|---|---|---|
| CONFIGURATION<br>FIG NO 1 FIG NO 2 | | PART NUMBERS OF FITTINGS | | | | |
| | FIG NOS | FLARE TO FLARE | FLARELESS TO FLARELESS | FLARE TO FLANGE | FLARELESS TO FLANGE | FLANGE TO FLANGE |
| STYLE A - straight to straight  MS87027 HOSE | 1 | MS87018 | MS87021 | MS87018 | MS87021 | MS87024 |
| | 2 | MS87018 | MS87021 | MS87024 | MS87024 | MS87024 |
| STYLE B - straight to 45 deg.  MS87027 HOSE | 1 | MS87018 | MS87021 | MS87018 | MS87021 | MS87024 |
| | 2 | MS87019 | MS87022 | MS87025 | MS87025 | MS87025 |
| STYLE G — straight to 45 deg | 1 | ▨ | ▨ | MS87024 | MS87024 | ▨ |
| | 2 | ▨ | ▨ | MS87019 | MS87022 | ▨ |
| STYLE C - straight to 90 deg.  MS87027 HOSE | 1 | MS87018 | MS87021 | MS87018 | MS87021 | MS87024 |
| | 2 | MS87020 | MS87022 | MS87026 | MS87026 | MS87026 |
| STYLE H — straight to 90 deg | 1 | ▨ | ▨ | MS87024 | MS87024 | ▨ |
| | 2 | ▨ | ▨ | MS87020 | MS87023 | ▨ |
| STYLE D - 45 to 45 deg  MS87027 HOSE | 1 | MS87019 | MS87022 | MS87019 | MS87022 | MS87025 |
| | 2 | MS87019 | MS87022 | MS87025 | MS87025 | MS87025 |
| STYLE E - 45 to 90 deg.  MS87027 HOSE | 1 | MS87019 | MS87022 | MS87019 | MS87022 | MS87025 |
| | 2 | MS87020 | MS87023 | MS87024 | MS87026 | MS87026 |
| STYLE J — 45 to 90 deg | 1 | ▨ | ▨ | MS87025 | MS87025 | ▨ |
| | 2 | ▨ | ▨ | MS87020 | MS87023 | ▨ |
| STYLE F - 90 to 90 deg  MS87027 HOSE | 1 | MS87020 | MS87023 | MS87020 | MS87023 | MS87026 |
| | 2 | MS87020 | MS87023 | MS87026 | MS87026 | MS87026 |

NOTES

1. Fittings shall mate with MS33514, MS33656, or MS33786 end fittings, as applicable.
2. For design and size of fittings, see corresponding dash number on applicable MS standard.
3. Identification. See procurement specification.
4. Dimensions in inches.
5. Referenced documents shall be of the issue in effect on date of invitation for bids.
6. For design feature purposes, this standard takes precedence over procurement documents referenced herein.

Figure D-41. Hose Assembly MS87028 thru MS87032 Series (Sheet 7 of 9)



For drop height A and B, see applicable fitting MS. The hose length to produce a desired assembly length is determined by measuring distance from socket groove to point shown in sketches.

Angle between elbow fittings, when projected on a plane perpendicular to the hose axis, shall be specified. Sighting along the axis of the hose, the angle specified will be the angle that the furtherest fitting should be rotated counterclockwise. Tolerance on angular alignment, ±5 deg. on hose lengths up to 36 inches and ±10 deg. on hose lengths over 36 inches.

Length L to be measured between centers of nipple ends along a straight line parallel to hose.
Length with hose laid out horizontally and straight.
Hose Assembly to be specified in inches and in the following length increments only: Under 12 inches not less that 1/8-inch (Tolerance ±1/8-inch).
12 to 18 inches, not less than 1/4-inch (Tolerance ±1/8-inch).
Over 18 inches, not less than 1/2-inch (Tolerance for lengths from 18 to 36 inches, ±1/4-inch). (Tolerances for lengths from 36 to 50 inches, ±1/2-inch, for lengths over 50 inches, ±1 percent.)

THE PART NO. SHALL BE FORMULATED TO REFLECT THE HOSE ASSEMBLY TUBE OD, LENGTH, STYLE AND ANGLE BETWEEN ELBOWS (AS APPLICABLE). ADD "F" AT END OF PART NO. TO DESIGNATE FORGED ELBOW FITTINGS (SEE MS87019, MS87020, MS87022, AND MS87023).

EXAMPLES OF PART NO.

HOSE ASSEMBLY FLARE TO FLARE, FOR 1/2-INCH TUBE OD 18 INCHES LONG, 30 DEG. BETWEEN ELBOWS

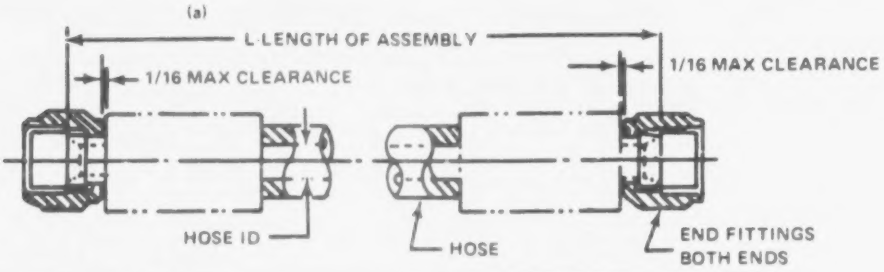
MS87028 H 18 0 F L 030

- 030 — ANGLE BETWEEN ELBOWS IN DEGREES
- L — LOCKWIRE HOLE (IF REQUIRED)
- F — STYLE OF FITTING (SEE SHEET 1)
- 0 — LENGHTHS (1/8 OF AN INCH)
- 18 — LENGTH IN INCHES, FOR LENGTHS UNDER 10 INCHES USE 09, 08, 07, etc.

| DASH NO | 3 | -4 | -5 | -6 | -8 | 10 | -12 | -16 | -20 | -24 | -32 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TUBING OD REF. | 3/16 | 1/4 | 5/16 | 3/8 | 1/2 | 5/8 | 3/4 | 1 | 1-1/4 | 1-1/2 | 2 |
| SIZE CODE | B | E | F | G | H | J | K | M | N | P | R |

| FLARE TO FLARE | FLARELESS TO FLARELESS | FLARE TO FLANGE | FLARELESS TO FLANGE | FLANGE TO FLANGE |
|---|---|---|---|---|
| MS87028 | MS87029 | MS87030 | MS87031 | MS87032 |

Figure D-41. Hose Assembly MS87028 thru MS87032 Series (Sheet 8 of 9)



| MS ASSEMBLY NO. | TUBING OD REF | HOSE ID REF | END FITTING |
|---|---|---|---|
| (b) MS28741-3 | 3/16 | 1/8 | MS24587-3 |
| MS28741-4 | 1/4 | 3/16 | MS24587-4 |
| MS28741-3 | 3/16 | 1/4 | MS24587-5 |
| MS28741-6 | 3/8 | 5/16 | MS24587-6 |
| MS28741-8 | 1/2 | 13/32 | MS24587-8 |
| MS28741-10 | 3/8 | 1/2 | MS24587-10 |
| MS28741-12 | 3/4 | 5/8 | MS24587-12 |
| MS28741-16 | 1 | 7/8 | MS24587-14 |
| MS28741-20 | 1-1/4 | 1-1/8 | MS24587-20 |
| MS28741-24 | 1-1/2 | 1-3/8 | MS24587-24 |
| MS28741-32 | 2 | 1-13/16 | MS24587-32 |

NOTES:

(a) HOSE ASSEMBLIES TO BE SPECIFIED IN THE FOLLOWING LENGTH INCREMENTS ONLY
12 INCHES LONG AND UNDER - NOT LESS THAN 1/8
12 TO 18 INCHES LONG - NOT LESS THAN 1/4
OVER 18 INCHES LONG - NOT LESS THAN 1/2

(b) ASSEMBLY NUMBER MS28741-3 INACTIVE FOR DESIGN FOR HYDRAULIC USE.
MS224587 END FITTINGS ARE DIMENSIONALLY AND FUNCTIONALLY INTERCHANGEABLE WITH MS28740. END FITTINGS SHALL CONFORM TO MIL-A-5070

ASSEMBLIES SHALL BE PROOF PRESSURE TESTED IN ACCORDANCE WITH SPECIFICATION MIL-M-8795.

SEE MIL-M-8796 FOR USE, OPERATING PRESSURE AND AGE CONTROL OF HOSE ASSEMBLY

MS ASSEMBLY NUMBERS FOR USE OF AIRCRAFT CONTRACTORS AND HOSE ASSEMBLIES ONLY PROVISIONING PARTS BREAKDOWN MUST LIST COMPONENT PARTS SPARE AND MAINTENANCE PARTS ARE NOT TO BE ORDERED BY SERVICES UNDER THE ASSEMBLY NUMBER SERVICES TO ORDER END FITTINGS BY THEIR INDIVIDUAL PART NUMBER AND HOSE CONFORMING TO MIL-M-8794.

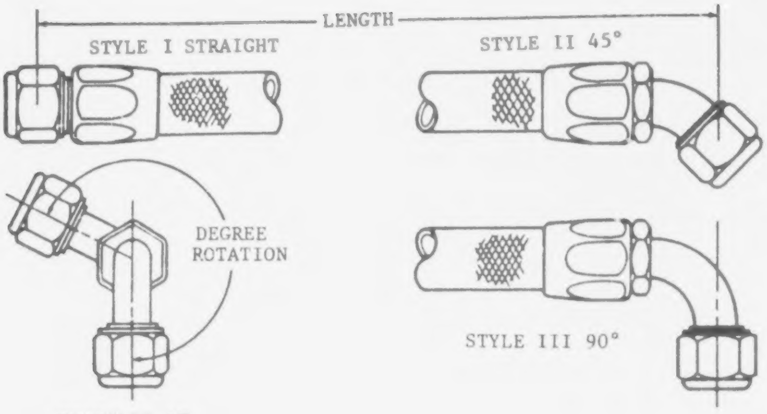
ⓒ EACH HOSE ASSEMBLY SHALL BE IDENTIFIED WITH A DURABLE PERMANENTLY ATTACHED TAG PLAINLY MARKED WITH THE MILITARY STANDARD (MS) HOSE ASSEMBLY NUMBER, DATE OF ASSEMBLY, CURE DATE OF THE HOSE, AND THE MANUFACTURER'S NAME AND PART NUMBER. THE NAME, TRADEMARK OR SYMBOL OF THE HOSE ASSEMBLER SHALL BE IMPRESSION STAMPED OR VIBRATOR ETCHED ON A BLANK SURFACE OF BOTH END ADAPTERS.

EXAMPLE OF PART NUMBER: MS28741-8-0184 - HOSE ASSEMBLY FOR 1/2 OD TUBING - LENGTH - 18-1/2 INCHES
FRACTIONS IN EIGHTS OF AN INCH
INCHES
SIZE

LENGTH L SHALL ALWAYS BE SPECIFIED BY FOUR DIGITS, THE LAST DIGIT SHALL ALWAYS INDICATE FRACTIONS BY EIGHTS OF AN INCH

DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED, TOLERANCE LENGTH L
1/8 (L UNDER 18)
1/4 (L FROM 18 TO 36)
1/2 (L OVER 36 TO 50)
1 PERCENT (L OVER 50)

Figure D-41. Hose Assembly MS28741 Series (Sheet 9 of 9)



EXAMPLES OF PART NO. ⚠1

70-009 F 245 Z 34 7

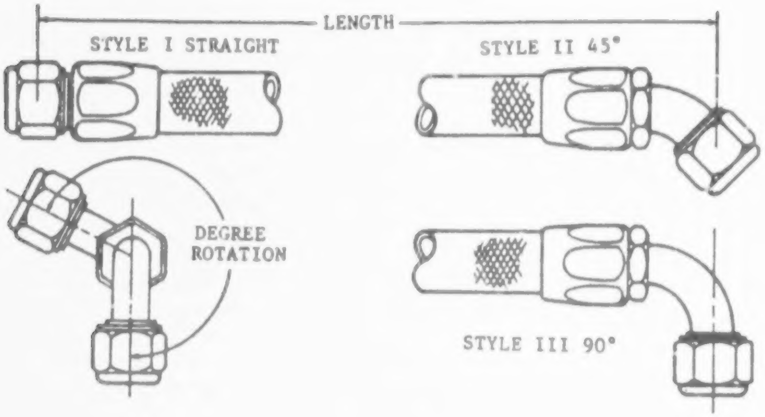
BASIC NO.
HOSE SIZE
DEGREE ROTATION
FRACTIONAL LENGTH CODED IN 1/8 INCH INCREMENTS
LENGTH IN INCHES
CODE FOR END FITTING COMBINATIONS ⚠2

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOSE SIZE | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 16 | 20 | 24 | 32 | = TUBING O.D. IN 1/16 IN. INCREMENTS |
| CODE LETTER | E | F | G | H | J | K | L | M | N | P | R | |

| Combinations Code ⚠2 | STYLES AND MATERIALS OF END FITTINGS (FLARED) | | | |
|---|---|---|---|---|
| | Material | Fitting Style | Material | Fitting Style |
| A | Alum. | I | Alum. | I |
| B | Alum. | II | Alum. | II |
| C | Alum. | III | Alum. | III |
| D | Steel | I | Steel | I |
| E | Steel | II | Steel | II |
| F | Steel | III | Steel | III |
| G | Alum. | I | Steel | III |
| H | Alum. | I | Steel | II |
| T | Alum. | I | Alum. | II |
| V | Alum. | I | Alum. | III |
| W | Alum. | II | Alum. | III |
| X | Steel | I | Steel | II |
| Y | Steel | I | Steel | III |
| Z | Steel | II | Steel | III |

⚠1 P/N 70-009 HOSE ASSEMBLIES SHALL BE FABRICATED SO THAT THE FIRE SLEEVE WILL COVER THE SOCKET FOR THE FITTING. ON AL ALY SOCKETS, THE FIRE SLEEVE COVERING THE FULL LENGTH OF THE SOCKET SHALL BE PROTECTED WITH SILICONE RUBBER AND SHALL BE BONDED, USING END DIP COMPOUND, TO THE SOCKET AT THE END TO PREVENT MOISTURE ENTRAPMENT.

Figure D-41.1. Hose Assembly, Fire Resistant (70-009 Series)



PART NO. CODE: 70-010 J 240 C 48 4
BASIC NO. — 70-010
HOSE SIZE — J
DEGREE ROTATION — 240
CODE FOR END FITTING COMBINATIONS △2 — C
LENGTH IN INCHES △6 — 48
FRACTIONAL LENGTH CODED IN 1/8 INCH INCREMENTS △3 — 4

| HOSE SIZE | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 16 | 20 | 24 | 32 | = TUBING O.D. IN 1/16 IN. INCREMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WITHOUT CHAFE GUARD | E | F | G | H | J | K | L | M | N | P | R | |
| △7 WITH CHAFE GUARD | S | T | U | V | W | X | Y | Z | A | B | C | |

| | STYLES AND MATERIALS OF END FITTINGS (FLARED) | | | |
|---|---|---|---|---|
| Combinations Code △2 | Material | Fitting Style | Material | Fitting Style |
| A | Alum. | I | Alum. | I |
| B | Alum. | II | Alum. | II |
| C | Alum. | III | Alum. | III |
| D | Steel | I | Steel | I |
| E | Steel | II | Steel | II |
| F | Steel | III | Steel | III |
| G | Alum. | I | Steel | III |
| H | Alum. | I | Steel | II |
| T | Alum. | I | Alum. | II |
| V | Alum. | I | Alum. | III |
| W | Alum. | II | Alum. | III |
| X | Steel | I | Steel | II |
| Y | Steel | I | Steel | III |
| Z | Steel | II | Steel | III |

Ⓔ PROVISIONS MADE TO CALLOUT HOSE WITH CHAFE GUARD

Figure D-41.2. Hose Assembly, Non-Fire Resistant (Sheet 1 of 2)

EXAMPLE OF CALLOUT:

70-010J240C484 = HOSE ASSEMBLY-NON FIRE RESISTANT, .5 INCH O.D., 240° ROTATION, 90° ALUMINUM FITTINGS BOTH ENDS, 48.5 INCHES LONG, WITHOUT CHAFE GUARD.

70-010W000C480 = HOSE ASSEMBLY-NON FIRE RESISTANT, .5 INCH O.D., 0° ROTATION, 90° ALUMINUM FITTINGS BOTH ENDS, 48.0 INCHES LONG, WITH CHAFE GUARD.

**NOTES: 1. SIMILAR TO MS87028 THRU MS87032 EXCEPT HOSE ASSEMBLY SHALL CONFORM TO BELL PROCUREMENT SPECIFICATION 299-947-045, CLASS "A". (P/N AE10187-001, NSN 8030-00-907-0879)**

△2 ON HOSE SIZES 3, 4, and 5; ALUMINUM FORGED BODY IS INACTIVE FOR FUTURE INSTALLATION AND DESIGN.

△3 FOR NEW DESIGN, FRACTIONAL LENGTH HOSES SHALL BE SPECIFIED IN THE FOLLOWING INCREMENTS ONLY:

(a) UNDER 18 INCHES LONG = ¼ INCH INCREMENTS ONLY. (2, 4, OR 6 ONLY)

(b) OVER 18 INCHES LONG = ½ INCH ONLY (4 ONLY)

4. HOSE ASSEMBLY SHALL BE CERTIFIED TO THE FOLLOWING BY TSO TAG ATTACHED:

FAA TSO-C53a TYPE A

5. IDENTIFY WITH BELL STANDARD PART NUMBER.

△6 MAXIMUM LENGTH OF HOSE ASSEMBLY IS 99.5 INCHES LONG

Ⓔ △7 CHAFE GUARD TO BE TRANSLUCENT VINYL PLASTIC PER MIL-I-7444 TYPE I, AND SHALL COME WITHIN .19 OF FITTING EACH END.

Figure D-41.2. Hose Assembly, Non-Fire Resistant (Sheet 2 of 2)

D-1. TUBE BENDING DATA. The information contained in this section discloses, as applicable, quantities of material and fittings, bend radii, angles, dimensions, and all other data required for fabrication of tube assemblies.

a. Table D-3 gives the material, NSN's, and quantities of the stock required to fabricate each tube assembly. The stock dimension column will indicate a length of 2 to 3 inches longer than is actually required for the finished tube. The last column includes the applicable system for each tube assembly, such as Fuel, Lubrication, etc.

b. Figure D-42 illustrates the type of dial marking, end references ("X" and "Y"), and dimensional references ("A" and "B"), to coincide with the data on Table D-4. The Type of Ends (I thru VI) are defined, and the "Notes" are provided for additional information.

c. Table D-4 includes all the dimensions (inches), angles (degrees), and other information required to fabricate the tube assemblies. The use of Table D-4 is described in the following example. The columns are numbered for reference only.

EXAMPLE

| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|
| PART NUMBER | BEND NO. | DIMENSION "A" FROM "Y" END | BEND RADIUS | DIAL SETTING | BEND ANGLE | END FITTING AND NOTES |
| | | DIMENSION "B" | TYPE END "Y" | TYPE END "X" | PRESSURE TEST | |
| 205-061-619-1 | 1 | 1-1/16 | 9/16 | 0 | 45 | Y - AN818-4D<br>MS20819-4D<br>X - Scarf Dial Setting 320 |
| | 2 | 9⅛ | 9/16 | 185 | 68 | |
| | | 11⅝ | III | V | N/A | |

Column 1. PART NUMBER — Tube Part Number in alpha numerical order.

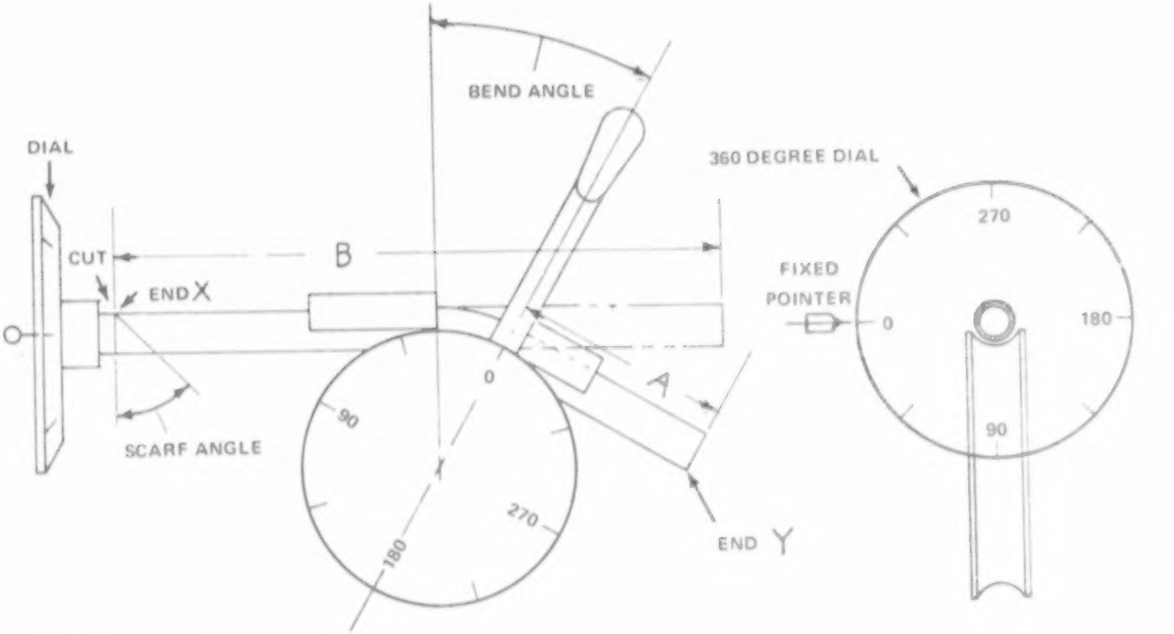
Column 2. BEND NO. — Bend Number 1, 2, etc., numbering from "Y" end of tube. The last block in Column 2 will be blank.

Column 3. **DIMENSION "A" FROM "Y" END — Refer to Figure D-42. Dimension "A" is the distance from "Y" End before bending, to the beginning point of each bend to be performed. (See Example.) "A" dimension for No. 1 bend is 1-1/16 inch. "A" dimension for No. 2 bend is 9⅛ inch.**

DIMENSION "B" — Dimension "B" is the exact tube length before tube is bent, including allowances for flaring or beading ends. (See Example.) "B" Dimension is 11⅝ inches.

Column 4. BEND RADIUS — Specifies the radius of each bend. (See Example.) Bend Radius for Nos. 1 and 2 bends is 9/16 inch.

**TYPE END "Y" — Refers to type of end (I thru VI). See Figure D-42, "Type of Ends", for definition. (See Example.) Type of End "Y" is III, indicating a Double Flare.**



TYPE OF ENDS

- I SINGLE FLARE - MS33584
- II BEAD - MS33660 TYPE "A" UNLESS NOTED.
- III DOUBLE FLARE - MS33583
- IV PLAIN SQUARE
- V ANGLE - 45° SCARF UNLESS NOTED.
- VI OTHER - AS DESIGNATED

NOTES:

1. SELECT MATERIAL AND END FITTINGS FROM TABLE D-3.
2. REFER TO TUBE BENDING DATA, TABLE D-4, FOR ALL DIMENSIONS, ANGLES, AND DIAL SETTINGS.
3. MARK DIMENSION "A" FOR EACH BEND, AND DIMENSION "B" PRIOR TO BENDING.
4. MAKE FIRST BEND WITH DIAL SET AT 0 DEG AND ROTATE DIAL TO "RIGHT" (CLOCKWISE) AND MAKE REMAINING BENDS AT SPECIFIED DIAL SETTINGS.
5. CUT "X" END AFTER BENDING. IF SCARF IS REQUIRED SET DIAL AND CUT TO SPECIFIED ANGLE.
6. TRIM AND BURR ENDS "X" AND "Y" AS NECESSARY.
7. BEND RADI SHALL CONFORM TO MS33611.
8. NUTS AND SLEEVES INSTALLED PER MS33566.
9. PRESSURE TEST TO PSI CALLED OUT IN TUBE BENDING DATA, TABLE D-4, IF APPLICABLE.
10. IDENTIFY TUBE ASSEMBLY BY MARKING PART NUMBER WITH RUBBER INK STAMP OR FELT PEN.

Figure D-42.

Column 5. DIAL SETTING — The dial setting is the degree of tube rotation from plane of first bend. The dial setting (degree of tube rotation) will depend on the type of dial marking used. The dial settings referenced in Table D-4 correspond to the type of dial marking illustrated in Figure D-42.

TYPE OF END ‘X” — Refers to type End (I thru VI). See Figure D-42 “Type of Ends”, for definition. (See Example.) Type of End “X” is V, indicating “Angle 45 degrees scarf.”

Column 6. BEND ANGLE — Specifies the degree of bend through which the tube is bent, as shown in Figure D-42. (See Example.) The bend angle (degree of bend) for 1st bend is 45 degrees, 2nd bend is 68 degrees.

**NOTE**

This is the actual number of degrees required in the bend. When pressure is released from the tube bender, a small amount of "spring back" varying in proportion to hardness and elongation characteristics of the tubing will necessitate a certain amount of over-run to accomplish the exact bend angle.

PRESSURE TEST — The pressure test, if applicable, is indicated in psi (pounds per square inch). (See Example.) Pressure test is indicated as N/A, meaning "Not Applicable".

Column 7. END FITTINGS AND NOTES — The Part Number of End Fitting, if required, and their identity to the correct End ("X" and "Y") are referenced. Additional notes will be included in this column, as required. (See Example.) The End Fittings for "Y" End are AN818-4D and MS20819-4D. For "X" End, no fittings are required. A scarf is cut on End "X", with dial setting at 320 degrees.

| ITEM NUMBER | PART NUMBER | NSN | NOMENCLATURE |
|---|---|---|---|
| 1. | MIL-H-27267-10 | 4720-00-857-1730 | Hose |
| 2. | MIL-H-27267-12 | 4720-00-857-1734 | Hose |
| 3. | MIL-H-27267-16Z | 4720-00-857-1729 | Hose |
| 4. | MIL-H-27267-4 | 4720-00-857-1732 | Hose |
| 5. | MIL-H-27267-5 | 4720-00-857-1736 | Hose |
| 6. | MIL-H-27267-6 | 4720-00-857-1731 | Hose |
| 7. | MIL-H-27267-8 | 4720-00-815-6354 | Hose |
| 8. | MIL-H-8794-4 | 4720-00-639-9907 | Hose |
| 9. | 601-10 | 4720-00-541-8328 | Hose |
| 10. | M83797/1-KR | 4720-00-555-3499 | Hose |
| 11. | MS87027-16R | 4720-00-540-6434 | Hose |
| 12. | MS87027-4 | 4720-00-541-9281 | Hose |
| 13. | MS87027-6 | 4720-00-611-2548 | Hose |
| 14. | MS87027-8 | 4720-00-580-6618 | Hose |
| 15. | MS24587-4 | 4730-00-842-2200 | Fitting Assembly |
| 16. | MS27053-10 | 4730-00-125-2640 | Fitting Assembly |
| 17. | MS27053-10C | 4730-00-889-2477 | Fitting Assembly |
| 18. | MS27053-12 | 4730-00-935-9382 | Fitting Assembly |
| 19. | MS27053-12C | 4730-00-889-2478 | Fitting Assembly |
| 20. | MS27053-16 | 4730-00-889-2473 | Fitting Assembly |
| 21. | MS27053-4C | 4730-00-889-2474 | Fitting Assembly |
| 22. | MS27053-6C | 4730-00-982-9736 | Fitting Assembly |
| 23. | MS27053-8C | 4730-00-889-2476 | Fitting Assembly |
| 24. | MS27055-10C | 4730-00-884-1232 | Fitting Assembly |
| 25. | MS27055-12 | 4730-00-935-9383 | Fitting Assembly |
| 26. | MS27055-12C | 4730-00-884-1234 | Fitting Assembly |
| 27. | MS27055-16 | 4730-00-884-1231 | Fitting Assembly |
| 28. | MS27057-10C | 4730-00-132-3162 | Fitting Assembly |
| 29. | MS27057-12 | 4730-00-130-4269 | Fitting Assembly |
| 30. | MS27057-12C | 4730-00-132-3163 | Fitting Assembly |
| 31. | MS27057-16 | 4730-00-135-8851 | Fitting Assembly |
| 32. | MS27059-4C | 4730-00-889-2465 | Fitting Assembly |
| 33. | MS27059-6C | 4730-00-889-2468 | Fitting Assembly |
| 34. | MS27060-4C | 4730-00-013-6970 | Fitting Assembly |
| 35. | MS27060-6C | 4730-00-013-6969 | Fitting Assembly |
| 36. | MS27060-8C | 4730-00-228-1106 | Fitting Assembly |
| 37. | MS27381-12 | 4730-00-054-7661 | Fitting Assembly |
| 38. | MS27381-4C | 4730-00-054-7650 | Fitting Assembly |
| 39. | MS27381-5C | 4730 00-877-9876 | Fitting Assembly |
| 40. | MS27381-6C | 4730-00-053-0379 | Fitting Assembly |
| 41. | MS27381-8 | 4730-00-053-0389 | Fitting Assembly |
| 42. | MS27381-8C | 4730-00-929-5705 | Fitting Assembly |
| 43. | MS27382-12 | 4730-00-053-0411 | Fitting Assembly |
| 44. | MS27384-4C | 4730-00-057-0665 | Fitting Assembly |
| 45. | MS27384-5C | 4730-00-007-2197 | Fitting Assembly |
| 46. | MS27384-6C | 4730-00-128-9819 | Fitting Assembly |
| 47. | MS27384-8 | 4730-00-054-7635 | Fitting Assembly |
| 48. | MS27385-4C | 4730-00-057-0664 | Fitting Assembly |
| 49. | MS27385-6C | 4730-00-053-0380 | Fitting Assembly |

Table D-1. (Sheet 1 of 2)

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| | | | |
|---|---|---|---|
| 50. | MS27385-8C | 4730-00-119-9854 | Fitting Assembly |
| 51. | MS87018-10 | 4730-00-541-9105 | Fitting Assembly |
| 52. | MS87018-12 | 4730-00-541-1957 | Fitting Assembly |
| 53. | MS87018-16 | 4730-00-585-6212 | Fitting Assembly |
| 54. | MS87018-4 | 4730-00-618-7378 | Fitting Assembly |
| 55. | MS87018-6 | 4730-00-613-1859 | Fitting Assembly |
| 56. | MS87018-8 | 4730-00-632-2002 | Fitting Assembly |
| 57. | MS87019-12 | 4730-00-618-7382 | Fitting Assembly |
| 58. | MS87019-4 | 4730-00-709-3887 | Fitting Assembly |
| 59. | MS87019-8 | 4730-00-684-6394 | Fitting Assembly |
| 60. | MS87020-10 | 4730-00-919-6785 | Fitting Assembly |
| 61. | MS87020-12 | 4730-00-238-5338 | Fitting Assembly |
| 62. | MS87020-4 | 4730-00-618-8862 | Fitting Assembly |
| 63. | MS87020-6 | 4730-00-720-1166 | Fitting Assembly |
| 64. | MS87020-8 | 4730-00-795-0945 | Fitting Assembly |
| 65. | MS87021-16 | 4730-00-936-2364 | Fitting Assembly |
| 66. | MS87022-16 | 4730-00-087-1016 | Fitting Assembly |
| 67. | MS87023-16 | 4730-00-403-0886 | Fitting Assembly |
| 68. | 624-7 | 5640-00-684-4153 | Fire Sleeving |
| 69. | AE102-8 | 5640-00-568-4687 | Fire Sleeving |
| 70. | 900902-4 | 4730-00-675-2450 | Clamp |
| 71. | AE10187-001 | 8030-00-907-0879 | Adhesive |
| 72. | QQ-V-423 | 9505-00-804-3814 | Safety Wire .042 Dia. |
| 73. | MS87021-12 | 4730-00-936-2365 | Fitting Assembly |
| 74. | MS87023-12 | 4730-00-087-1008 | Fitting Assembly |
| 75. | MS87019-10 | 473-00-813-6923 | Fitting Assembly |

Table D-1. (Sheet 2 of 2)

| Hose Assembly Part Number | Items Required for Fabrication (Refer to Table D-1 for Items Listed) |
|---|---|
| MS8000E072A | 4, 21 |
| MS8000E150B | 4, 21, 32 |
| MS8000E160A | 4, 21 |
| MS8000E160B | 4, 21, 32 |
| MS8000E165A | 4, 21 |
| MS8000E180B | 4, 21, 32 |
| MS8000E210A | 4, 21 |
| MS8000E210C | 4, 21, 34 |
| MS8000E250C | 4, 21, 34 |
| MS8000E300A | 4, 21 |
| MS8000E324C | 4, 21, 34 |
| MS8000E340C | 4, 21, 34 |
| MS8000G070C | 6, 22, 35 |
| MS8000G090C | 6, 22, 35 |
| MS8000G110B | 6, 22, 33 |
| MS8000G130A | 6, 22 |
| MS8000G130B | 6, 22, 35 |
| MS8000G180C | 6, 22, 35 |
| MS8000G520F | 6, 35 |
| MS8000H210A | 7, 23 |
| MS8000J190F | 1, 28 |
| MS8000J220C | 1, 17, 28 |
| MS8000J260F | 1, 28 |
| MS8000K130B | 2, 19, 26 |
| MS8000K150E180 | 2, 26, 30 |
| MS8000K160F180 | 2, 30 |
| MS8000K700C | 2, 19, 30 |
| MS8000M210G | 3, 20 |
| MS8001E140B | 4, 38, 44 |
| MS8001E150B | 4, 38, 44 |
| MS8001E200A | 4, 38 |
| MS8001E440A | 4, 38 |
| MS8001F150B | 5, 39, 45 |
| MS8001F200A | 5, 39 |
| **MS 8001F210A** | 5, 39 |
| MS8001G130B | 6, 40, 46 |
| MS8001G146A | 6, 40 |
| MS8001G400A | 6, 40 |
| MS8001G440A | 6, 40 |
| MS8001H094C | 7, 42, 50 |
| MS8001H136H | 7, 41, 47 |
| MS87028E123A | 12, 54 |
| MS87028E216A | 12, 54 |
| MS87028E220C | 12, 54, 62 |
| MS87028G082C000 | 13, 55, 63 |
| MS87028G210A | 13, 55 |
| MS87028H090A | 14, 56 |
| MS87028H106A000 | 14, 56 |
| MS87028H110C | 14, 56, 64 |
| MS87028H150A | 14, 56 |
| MS87028H175A | 14, 56 |
| MS87028H280C | 14, 56, 64 |
| MS87028H283C000 | 14, 56, 64 |
| MS87028H700C | 14, 56, 64 |
| MS87028J136A | 9, 51 |
| MS87028J166F | 9, 60 |
| MS87028J185F000 | 9, 60 |
| MS87028J336C | 9, 51, 60 |
| MS87028K116C | 10, 73, 74 |
| MS87028K146A | 10, 52 |
| MS87028K171B | 10, 52, 57 |
| MS87028K214A | 10, 52 |
| MS87028K292A | 10, 52 |
| MS87028K312E140 | 10, 57, 61 |
| MS87028K360C | 10, 52, 61 |
| MS87029M284E220 | 11, 66, 67 |
| 70-009F245Z347 | 12, 58, 62, 69, 70, 71 |

Table D-2.

| Hose Assembly Part Number | Items Required for Fabrication (Refer to Table D-1 for Items Listed) |
|---|---|
| 70-010J000A180 | 14, 56 |
| 70-010J000G214 | 14, 56, 64 |
| 70-010J000T164 | 14, 57, 59 |
| 70-010J000T174 | 14, 57, 59 |
| 70-010J000V384 | 14, 57, 64 |
| 70-010K000H154 | 9, 51, 75 |
| 70-010K304Z134 | 9, 60, 75 |

| TUBE ASSY PART NO. | FABRICATE FROM NSN | STOCK DIM | | | END FITTING | | | | SYSTEM |
|---|---|---|---|---|---|---|---|---|---|
| | | O.D. | W.T. | L. | NUT NSN | QTY | SLEEVE NSN | QTY | |
| 204-040-215-27 | 4710-00-278-8726 | [illegible] | .035 | 13 | 4730-00-142-2167 | 2 | 4730-00-278-6070 | 2 | Lub. |
| 204-040-722-1 | 4710-00-278-3291 | ¼ | .035 | 16 | 4730-00-222-1912 | 2 | 4730-00-278-0678 | 2 | Lub. |
| 204-040-723-1 | 4710-00-278-3291 | ¼ | .035 | 16 | 4730-00-222-1912 | 2 | 4730-00-278-0678 | 2 | Lub. |
| 204-060-082-1 | 4710-00-278-3291 | ¼ | .020 | 13 | 4730-00-222-1912 | 2 | 4730-00-278-0678 | 2 | Lub. |
| 204-060-098-1 | 4710-00-278-[illegible]1 | ¼ | .035 | 7 | 4730-00-222-1912 | 2 | 4730-00-278-0678 | 2 | Lub. |
| 204-070-110-153 | 4710-00-278-6398 | ¼ | .035 | 6 | 4730-00-287-0289 | 2 | 4730-00-302-8641 | 2 | Inst. Air |
| 204-070-110-155 | 4710-00-278-6398 | ¼ | .035 | 7 | 4730-00-287-0289 | 2 | 4730-00-302-8641 | 2 | Inst. Air |
| 204-070-110-3 | 4710-00-278-6398 | ¼ | .035 | 18 | 4730-00-287-0289 | 2 | 4730-00-302-8641 | 2 | Inst. Air |
| 204-070-110-65 | 4710-00-278-6398 | ¼ | .035 | 38 | 4730-00-287-0289 | 2 | 4730-00-302-8641 | 2 | Inst. Air |
| 204-070-110-67 | 4710-00-278-6398 | ¼ | .035 | 38 | 4730-00-287-0289 | 2 | 4730-00-302-8641 | 2 | Inst. Air |
| 204-070-110-7 | 4710-00-278-6398 | ¼ | .035 | 24 | 4730-00-287-0289 | 2 | 4730-00-302-8641 | 2 | Inst. Air |
| 204-070-110-71 | 4710-00-278-6398 | ¼ | .035 | 12 | 4730-00-287-0289 | 2 | 4730-00-302-8641 | 2 | Inst. Air |
| 204-070-134-11 | 4710-00-278-6398 | ¼ | .035 | 30 | 4730-00-287-0289 | 2 | 4730-00-302-8641 | 2 | Inst. Air |
| 204-072-265-1 | 4710-00-278-6398 | ¼ | .035 | 60 | 4730-00-287-0289 | 2 | 4730-00-302-8641 | 2 | Inst. Air |
| 204-072-267-1 | 4710-00-278-6398 | ¼ | .035 | 33 | 4730-00-287-0289 | 2 | 4730-00-302-8641 | 2 | Inst. Air |
| 204-072-268-1 | 4710-00-278-6398 | ¼ | .035 | 49 | 4730-00-287-0289 | 2 | 4730-00-302-8641 | 2 | Inst. Air |
| 204-072-355-1 | 4710-00-278-6398 | ¼ | 0.35 | 14 | 4730-00-278-0289 | 2 | 4730-00-302-8641 | 2 | Inst. Air |
| 204-072-364-1 | 4710-00-278-6398 | ¼ | 0.35 | 20 | 4730-00-278-0289 | 2 | 4730-00-302-8641 | 2 | Inst. Air |
| 205-040-142-1 | 4710-00-278-8740 | ⅝ | .035 | 16.5 | 4730-00-287-0290 | 2 | 4730-00-277-5358 | 2 | |
| 205-040-143-1 | 4710-00-278-8740 | ⅝ | .035 | 22.0 | 4730-00-287-0290 | 2 | 4730-00-277-5358 | 2 | |
| 205-040-144-1 | 4710-00-278-8740 | ⅝ | .035 | 58.0 | 4730-00-287-0290 | 2 | 4730-00-277-5358 | 2 | |
| 205-040-145-1 | 4710-00-278-8740 | ⅝ | .035 | 3.5 | 4730-00-287-0290 | 2 | 4730-00-277-5358 | 2 | |
| 205-040-146-1 | 4710-00-278-8740 | ⅝ | .035 | 40.5 | 4730-00-287-0290 | 2 | 4730-00-277-5358 | 2 | |
| 205-040-147-1 | 4710-00-278-8740 | ⅝ | .035 | 21.5 | 4730-00-287-0290 | 2 | 4730-00-277-5358 | 2 | |
| 205-040-148-1 | 4710-00-278-8740 | ⅝ | .035 | 16.0 | 4730-00-287-0290 | 2 | 4730-00-277-5358 | 2 | |

**Table D-3. (Sheet 1 of 6)**

| TUBE ASSY PART NO. | FABRICATE FROM NSN | STOCK DIM |  |  | END FITTING |  |  |  | SYSTEM |
|---|---|---|---|---|---|---|---|---|---|
|  |  | O.D. | W.T. | L. | NUT NSN | QTY | SLEEVE NSN | QTY |  |
| 205-040-150-1 | 4710-00-279-0955 | ⅜ | .035 | 9.8 | 4730-00-142-2167 | 2 | 4730-00-278-6070 | 2 |  |
| 205-040-151-1 | 4710-00-279-0955 | ⅜ | .035 | 3.5 | 4730-00-142-2167 | 2 | 4730-00-278-6070 | 2 |  |
| 205-040-159.1 | 4710-00-278-8740 | 5/8 | .035 | 23.5 | 4730-00-287-0290 | 2 | 4730-00-277-5358 | 2 |  |
| 205-060-424-1 | 4710-00-278-8745 | ¾ | .035 | 6 | 4730-00-287-0296 | 2 | 4730-00-433-3377 | 2 | Pneu. |
| 205-060-440-1 | 4710-00-541-8624 | ½ | .035 | 14 | 4730-00-287-0297 | 2 | 4730-00-433-3376 | 2 | Pneu. |
| 205-060-580-1 | 4710-00-278-8726 | ⅜ | .035 | 38 | 4730-00-142-2167 | 1 | 4730-00-278-6070 | 1 | Drain |
| 205-060-581-1 | 4710-00-278-8726 | ⅜ | .035 | 69 | 4730-00-142-2167 | 1 | 4730-00-278-6070 | 1 | Drain |
| 205-060-582 1 | 4710-00-278-8745 | ¾ | .035 | 73 | 4730-00-287-0285 | 1 | 4730-00-287-0067 | 1 | Drain |
| 205-060-583-1 | 4710-00-278-6398 | ¼ | .035 | 49 | 4730-00-287-0289 | 1 | 4730-00-302-8641 | 1 | Drain |
| 205-040-203-1 | 4710-00-277-3622 | 3/4 | .035 | 36 | 4730-00-287-0285 | 2 | 4730-00-281-0067 | 2 |  |

| TUBE ASSY PART NO. | FABRICATE FROM NSN | STOCK DIM. O.D. | W.T. | L. | END FITTING NUT NSN | QTY | SLEEVE NSN | QTY | SYSTEM |
|---|---|---|---|---|---|---|---|---|---|
| 205-060-584-1 | 4710-00-278-8745 | ¾ | .035 | 43 | 4730-00-287-0285 | 2 | 4730-00-287-0067 | 2 | Lub. |
| 205-060-585-1 | 4710-00-278-8745 | ¾ | .035 | 16 | 4730-00-287-0285 | 2 | 4730-00-287-0067 | 2 | Lub. |
| 205-060-586-1 | 4710-00-278-8742 | ⅝ | .035 | 46 | 4730-00-287-0295 | 2 | 4730-00-277-5358 | 2 | Lub. |
| 205-060-587-1 | 4710-00-278-8742 | ⅝ | .035 | 40 | 4730-00-287-0295 | 2 | 4730-00-277-5358 | 2 | Lub. |
| 205-060-589-1 | 4710-00-278-8726 | ⅜ | .035 | 14 | 4730-00-142-2167 | 1 | 4730-00-278-6070 | 1 | Drain |
| 205-060-590-1 | 4710-00-278-8726 | ⅜ | .035 | 50 | 4730-00-142-2167 | 1 | 4730-00-278-6070 | 1 | Drain |
| 205-060-591-1 | 4710-00-278-3282 | ⅛ | .035 | 9 | 4730-00-203-3831 | 2 | 4730-00-278-0682 | 2 | Lub. |
| 205-060-592-1 | 4710-00-278-3282 | ⅛ | .035 | 17 | 4730-00-203-3831 | 2 | 4730-00-278-0682 | 2 | Lub. |
| 205-060-593-1 | 4710-00-278-3282 | ⅛ | .035 | 33 | 4730-00-203-3831 | 2 | 4730-00-278-0682 | 2 | Lub. |
| 205-060-594-1 | 4710-00-278-3314 | ¾ | .035 | 39 | 4730-00-287-0296 | 2 | 4730-00-433-3377 | 2 | Lub. |
| 205-060-648-1 | 4710-00-278-8742 | ⅝ | .035 | 36 | 4710-00-287-0290 | 2 | 4730-00-277-5358 | 2 | Fuel |
| 205-060-649-1 | 4710-00-278-8742 | ⅝ | .035 | 36 | 4710-00-287-0290 | 2 | 4730-00-277-5358 | 2 | Fuel |
| 205-060-690-1 | 4710-00-278-8726 | ⅜ | .035 | 46 | 4730-00-142-2167 | 1 | 4730-00-278-6070 | 1 | Drain |
| 205-060-691-1 | 4710-00-278-8745 | ¾ | .035 | 21 | 4730-00-287-0285 | 2 | 4730-00-287-0067 | 2 | Fuel |
| 205-060-692-1 | 4710-00-278-8745 | ¾ | .035 | 11 | 4730-00-287-0285 | 2 | 4730-00-287-0067 | 2 | Fuel |
| 205-060-693-1 | 4710-00-278-8745 | ¾ | .035 | 33 | 4730-00-287-0285 | 2 | 4730-00-287-0067 | 2 | Fuel |
| 205-060-694-1 | 4710-00-278-8745 | ¾ | .035 | 17 | 4730-00-287-0285 | 2 | 4730-00-287-0067 | 2 | Fuel |
| 205-060-695-1 | 4710-00-278-8723 | 1 | .035 | 36 | 4730-00-222-1915 | 2 | 4730-00-287-0065 | 2 | Fuel |
| 205-060-696-1 | 4710-00-278-8723 | 1 | .035 | 33 | 4730-00-222-1915 | 1 | 4730-00-287-0065 | 1 | Drain |
| 205-060-697-1 | 4710-00-278-8726 | ⅜ | .035 | 49 | 4730-00-142-2167 | 1 | 4730-00-278-6070 | 1 | Fuel |
| 205-061-213-1 | 4710-00-278-8723 | 1 | .035 | 19 | 4730-00-222-1915 | 2 | 4730-00-287-0065 | 2 | Drain |
| 205-061-214-1 | 4710-00-278-8723 | 1 | .035 | 51 | 4730-00-222-1915 | 1 | 4730-00-287-0065 | 1 | Drain |
| 205-061-600-1 | 4710-00-278-8742 | ⅝ | .035 | 20 | 4730-00-287-0290 | 2 | 4730-00-277-5358 | 2 | Fuel |
| 205-061-601-1 | 4710-00-278-8742 | ⅝ | .035 | 19 | 4730-00-287-0290 | 2 | 4730-00-277-5358 | 2 | Fuel |
| 205-061-604-1 | 4710-00-278-6398 | ¼ | .035 | 9 | 4720-00-287-0289 | 2 | 4730-00-302-8641 | 2 | Fuel |
| 205-061-606-1 | 4710-00-279-0950 | ½ | .035 | 20 | 4730-00-287-0288 | 2 | 4730-00-277-5373 | 2 | Fuel |
| 205-061-607-1 | 4710-00-279-0950 | ½ | .035 | 20 | 4730-00-287-0288 | 2 | 4730-00-277-5373 | 2 | Fuel |
| 205-061-608-1 | 4710-00-279-0950 | ½ | .035 | 6 | 4730-00-287-0288 | 2 | 4730-00-277-5373 | 2 | Fuel |
| 205-061-609-1 | 4710-00-279-0950 | ½ | .035 | 5 | 4730-00-287-0288 | 2 | 4730-00-277-5373 | 2 | Fuel |
| 205-061-610-1 | 4710-00-278-8726 | ⅜ | .035 | 33 | 4730-00-142-2167 | 2 | 4730-00-278-6070 | 2 | Fuel |

Table D-3. (Sheet 2 of 6)

| TUBE ASSY PART NO | FABRICATE FROM NSN | STOCK DIM. | | | END FITTING | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | O.D. | W.T. | L. | NUT NSN | QTY | SLEEVE NSN | QTY | SYSTEM |
| 205-061-611-1 | 4710-00-278-8726 | ⅜ | .035 | 33 | 4730-00-142-2167 | 2 | 4730-00-278-6070 | 2 | Fuel |
| 205-061-612-1 | 4710-00-278-8726 | ⅜ | .035 | 26 | 4730-00-142-2167 | 2 | 4730-00-278-6070 | 2 | Fuel |
| 205-061-614-1 | 4710-00-279-0950 | ½ | .035 | 18 | 4730-00-287-0288 | 1 | 4730-0[illegible]-277-5373 | 1 | Fuel |
| 205-061-615-1 | 4710-00-279-0950 | ½ | .035 | 17 | 4730-00-287-0288 | 1 | 4730-00-277-5373 | 1 | Drain |
| 205-061-616-1 | 4710-00-279-0950 | ½ | .035 | 18 | 4730-00-287-0288 | 1 | 4730-00-277-5373 | 1 | Drain |
| 205-061-617-1 | 4710-00-279-0590 | ½ | .035 | 17 | 4730-00-287-0288 | 1 | 4730-00-277-5373 | 1 | Drain |
| 205-061-618-1 | 4710-00-278-6398 | ¼ | .035 | 13 | 4730-00-287-0289 | 1 | 4730-00-302-8641 | 1 | Drain |
| 205-061-619-1 | 4710-00-278-6398 | ¼ | .035 | 14 | 4730-00-287-0289 | 1 | 4730-00-302-8641 | 1 | Drain |
| 205-061-624-1 | 4710-00-278-8726 | ⅜ | .035 | 20 | 4730-00-142-2167 | 2 | 4730-00-278-6070 | 2 | Fuel |
| 205-061-645-1 | 4710-00-279-0950 | ½ | .035 | 11 | 4730-00-287-0288 | 2 | 4730-00-277-5373 | 2 | Fuel |
| 205-061-647-1 | 4710-00-278-8742 | ⅝ | .035 | 21 | 4730-00-287-0290 | 2 | 4730-00-277-5358 | 2 | Fuel |
| 205-061-649-1 | 4710-00-278-8742 | ⅝ | .035 | 22 | 4730-00-287-0290 | 2 | 4730-00-277-5358 | 2 | Fuel |
| 205-061-650-1 | 4710-00-278-8742 | ⅝ | .035 | 21 | 4730-00-287-0290 | 2 | 4730-00-277-5358 | 2 | Fuel |
| 205-061-651-1 | 4710-00-279-0950 | ½ | .035 | 23 | 4730-00-287-0288 | 1 | 4730-00-277-5373 | 1 | Drain |
| 205-061-652-1 | 4710-00-279-0950 | ½ | .035 | 23 | 4730-00-287-0288 | 1 | 4730-00-277-5373 | 1 | Drain |
| 205-061-653-1 | 4710-00-278-6398 | ¼ | .035 | 24 | 4730-00-287-0289 | 1 | 4730-00-302-8641 | 1 | Drain |
| 205-061-654-1 | 4710-00-278-6398 | ¼ | .035 | 23 | 4730-00-287-0289 | 1 | 4730-00-302-8641 | 1 | Drain |
| 205-061-655-1 | 4710-00-278-8726 | ⅜ | .035 | 28 | 4730-00-142-2167 | 2 | 4730-00-278-6070 | 2 | Fuel |
| 205-061-659-1 | 4710-00-279-0950 | ½ | .035 | 14 | 4730-00-287-0288 | 2 | 4730-00-277-5373 | 2 | Fuel |
| 205-061-661-1 | 4710-00-278-8726 | ⅜ | .035 | 25 | 4730-00-142-2167 | 2 | 4730-00-278-6070 | 2 | Fuel |
| 205-061-662-1 | 4710-00-278-8726 | ⅜ | .035 | 13 | 4730-00-142-2167 | 2 | 4730-00-278-6070 | 2 | Fuel |
| 205-061-663-1 | 4710-00-279-0950 | ½ | .035 | 30 | 4730-00-287-0288 | 2 | 4730-00-277-5373 | 2 | Fuel |
| 205-061-664-1 | 4710-00-279-0950 | ½ | .035 | 16 | 4730-00-287-0288 | 2 | 4730-00-277-5373 | 2 | Fuel |
| 205-061-668-1 | 4710-00-279-0950 | ½ | .035 | 13 | 4730-00-287-0288 | 2 | 4730-00-277-5373 | 2 | Pneu. |
| 205-061-669-1 | 4710-00-279-0950 | ½ | .035 | 16 | 4730-00-287-0288 | 2 | 4730-00-277-5373 | 2 | Pneu. |
| 205-061-670-1 | 4710-00-279-0950 | ½ | .035 | 36 | 4730-00-287-0288 | 2 | 4730-00-277-5373 | 2 | Pneu. |
| 205-061-671-1 | 4710-00-279-0950 | ½ | .035 | 32 | 4730-00-287-0288 | 2 | 4730-00-277-5373 | 2 | Pneu. |
| 205-061-674-1 | 4710-00-278-3305 | ⅝ | .035 | 12 | 4730-00-287-0295 | 2 | 4730-00-277-5357 | 2 | Fuel |
| 205-061-675-1 | 4710-00-278-3282 | ⅜ | .035 | 12 | 4730-00-203-3831 | 2 | 4730-00-278-0682 | 2 | Fuel |
| 205-061-685-1 | 4710-00-278-6398 | ½ | .035 | 24 | 4730-00-287-0289 | 2 | 4730-00-302-8641 | 2 | Fuel |

**Table D-3. (Sheet 3 of 6)**

| TUBE ASSY PART NO. | FABRICATE FROM NSN | STOCK DIM. |  |  | END FITTING |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|
|  |  | O.D. | W.T. | L. | NUT NSN | QTY | SLEEVE NSN | QTY | SYSTEM |
| 205-062-614-1 | 4710-00-279-0950 | ½ | .035 | 26 | 4730-00-287-0288 | 2 | 4730-00-277-5373 | 2 | Fuel |
| 205-062-662-1 | 4710-00-278-8726 | ⅜ | .035 | 9 | 4730-00-142-2167 | 2 | 4730-00-278-6078 | 2 | Fuel |
| 205-062-663-1 | 4710-00-278-8726 | ⅜ | .035 | 30 | 4730-00-142-2167 | 2 | 4730-00-278-6078 | 2 | Fuel |
| 205-062-680-1 | 4710-00-279-0950 | ½ | .035 | 20 | 4730-00-278-0288 | 2 | 4730-00-277-5373 | 2 | Fuel |
| 205-062-681-1 | 4710-00-279-0950 | ½ | .035 | 25 | 4730-00-278-0288 | 2 | 4730-00-277-5373 | 2 | Fuel |
| 205-070-365-1 | 4730-00-278-6398 | ¼ | .035 | 33 | 4730-00-287-0289 | 2 | 4730-00-302-8641 | 2 | Pneu. |
| 205-070-366-1 | 4730-00-278-6398 | ¼ | .035 | 13 | 4730-00-287-0289 | 2 | 4730-00-302-8641 |  | Pneu. |
| 205-070-436-1 | 4710-00-278-6398 | ¼ | .035 | 24 | 4730-00-287-0289 | 2 | 4730-00-302-8641 | 2 | Pneu. |
| 205-070-439-1 | 4710-00-278-6398 | ¼ | .035 | 14 | 4730-00-287-0289 | 2 | 4730-00-302-8641 | 2 | Fuel |
| 205-070-440-1 | 4710-00-278-6398 | ¼ | .035 | 33 | 4730-00-287-0289 | 2 | 4730-00-302-8641 | 2 | Fuel |
| 205-070-441-1 | 4710-00-278-6398 | ¼ | .035 | 12 | 4730-00-287-0289 | 2 | 4730-00-302-8641 | 2 | Fuel |
| 205-070-448-1 | 4710-00-278-6398 | ¼ | .035 | 10 | 4730-00-287-0289 | 2 | 4730-00-302-8641 | 2 | Fuel |
| 205-070-475-1 | 4710-00-278-6398 | ¼ | .035 | 36 | 4730-00-287-0289 | 2 | 4730-00-302-8641 | 2 | Fuel |
| 205-070-476-1 | 4710-00-278-6398 | ¼ | .035 | 12 | 4730-00-287-0289 | 2 | 4730-00-302-8641 | 2 | Fuel |
| 205-070-484-1 | 4710-00-278-6398 | ¼ | .035 | 18 | 4730-00-287-0289 | 2 | 4730-00-302-8641 | 2 | Pneu |
| 205-070-485-1 | 4710-00-278-6398 | ¼ | .035 | 10 | 4730-00-287-0289 | 2 | 4730-00-302-8641 | 2 | Inst. Air |
| 205-070-486-1 | 4710-00-278-6398 | ¼ | .035 | 23 | 4730-00-287-0289 | 2 | 4730-00-302-8641 | 2 | Pneu. |
| 205-070-487-1 | 4710-00-278-6398 | ¼ | .035 | 36 | 4730-00-287-0289 | 2 | 4730-00-302-8641 | 2 | Pneu. |
| 205-070-488-1 | 4710-00-278-6398 | ¼ | .035 | 12 | 4730-00-287-0289 | 2 | 4730-00-302-8641 | 2 | Pneu. |
| 205-070-490-1 | 4710-00-278-6398 | ¼ | .035 | 34 | 4730-00-287-0289 | 2 | 4730-00-302-8641 | 2 | Pneu. |
| 205-070-491-1 | 4710-00-278-6398 | ¼ | .035 | 39 | 4730-00-287-0289 | 2 | 4730-00-302-8641 | 2 | Pneu. |
| 205-072-208-1 | 4730-00-278-6398 | ¼ | .035 | 46 | 4730-00-287-0289 | 2 | 4730-00-302-8641 | 2 | Pneu. |
| 205-072-278-1 | 4710-00-278-6398 | ¼ | .035 | 32 | 4730-00-287-0289 | 2 | 4730-00-302-8641 | 2 | Pneu. |
| 205-072-304-1 | 4730-00-278-6398 | ¼ | .035 | 13 | 4730-00-287-0289 | 2 | 4730-00-302-8641 | 2 | Pneu. |
| 205-072-305-1 | 4730-00-278-6398 | ¼ | .035 | 15 | 4730-00-287-0289 | 2 | 4730-00-302-8641 | 2 | Pneu. |
| 205-072-410-1 | 4710-00-278-8723 | 1 | .035 | 28 | 4730-00-222-1915 | 2 | 4730-00-287-0065 | 2 | Pneu. |
| 205-072-424-1 | 4710-00-278-8723 | 1 | .035 | 66 | 4730-00-222-1915 | 2 | 4730-00-287-0065 | 2 | Pneu. |
| 205-075-134-1 | 4710-00-278-8726 | ⅜ | .035 | 7 | N/A | N/A | N/A | N/A | Drain |
| 205-076-033-1 | 4710-00-278-6398 | ¼ | .035 | 16 | 4730-00-555-8203 | 2 | 4730-00-289-8619 | 2 | Hyd. |
| 205-076-131-1 | 4710-00-278-8726 | ⅜ | .035 | 32 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |

Table D-3. (Sheet 4 of 6)

| TUBE ASSY PART NO. | FABRICATE FROM NSN | STOCK DIM. |  |  | END FITTING |  |  | QTY | SYSTEM |
|---|---|---|---|---|---|---|---|---|---|
|  |  | O.D. | W.T. | L | NUT NSN | QTY | SLEEVE NSN |  |  |
| 205-076-136-1 | 4710-00-278-6398 | ¼ | .035 | 30 | 4730-00-555-8203 | 2 | 4730-00-289-8619 | 2 | Hyd. |
| 205-076-138-1 | 4710-00-279-0950 | ½ | .035 | 16 | 4730-00-555-0595 | 2 | 4730-00-580-2120 | 2 | Hyd. |
| 205-076-140-1 | 4710-00-278-8726 | ⅜ | .035 | 33 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-141-1 | 4710-00-278-3282 | ⅜ | .035 | 26 | 4730-00-810-449 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-156-1 | 4710-00-278-6398 | ¼ | .035 | 33 | 4730-00-555-8203 | 2 | 4730-00-289-8619 | 2 | Hyd. |
| 205-076-157-1 | 4710-00-278-8726 | ⅜ | .035 | 17 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-158-1 | 4710-00-278-8726 | ⅜ | .035 | 24 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-159-1 | 4710-00-279-0950 | ½ | .035 | 28 | 4730-00-555-0595 | 2 | 4730-00-580-2120 | 2 | Hyd. |
| 205-076-160-1 | 4710-00-278-6398 | ¼ | .035 | 29 | 4730-00-555-8203 | 2 | 4730-00-289-8619 | 2 | Hyd. |
| 205-076-161-1 | 4710-00-278-6398 | ¼ | .035 | 13 | 4730-00-555-8203 | 2 | 4730-00-289-8619 | 2 | Hyd. |
| 206-076-200-1 | 4710-00-278-6398 | ¼ | .035 | 9.0 | 4730-00-555-8203 | 2 | 4730-00-289-8619 | 2 | Hyd. |
| 205-076-201-1 | 4710-00-278-8726 | ⅜ | .035 | 15 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-202-1 | 4710-00-278-8726 | ⅜ | .035 | 15 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-203-1 | 4710-00-278-8726 | ⅜ | .035 | 12 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-204-1 | 4710-00-278-8726 | ⅜ | .035 | 24 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-205-1 | 4710-00-278-6398 | ¼ | .035 | 15.0 | 4730-00-555-8203 | 2 | 4730-00-289-8619 | 2 | Hyd. |
| 205-076-206-1 | 4710-00-278-6398 | ¼ | .035 | 19 | 4730-00-555-8203 | 2 | 4730-00-289-8619 | 2 | Hyd. |
| 205-076-207-1 | 4710-00-278-3291 | ¼ | .035 | 16 | 4730-00-554-8015 | 2 | 4730-00-289-8619 | 2 | Hyd. |
| 205-076-208-1 | 4710-00-278-6398 | ¼ | .035 | 40.0 | 4730-00-555-8203 | 2 | 4730-00-289-8619 | 2 | Hyd. |
| 205-076-209-1 | 4710-00-278-6398 | ¼ | .035 | 35 | 4730-00-555-8203 | 2 | 4730-00-289-8619 | 2 | Hyd. |
| 205-076-210-1 | 4710-00-278-3291 | ¼ | .035 | 14 | 4730-00-554-8015 | 2 | 4730-00-289-8619 | 2 | Hyd. |
| 205-076-212-1 | 4710-00-278-3282 | ⅜ | .035 | 26 | 4730-00-810-4499 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-213-1 | 4710-00-278-8726 | ⅜ | .035 | 34 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-214-1 | 4710-00-278-8726 | ⅜ | .035 | 18 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-215-1 | 4710-00-278-8726 | ⅜ | .035 | 30.0 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-216-1 | 4710-00-278-8726 | ⅜ | .035 | 20 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-217-1 | 4710-00-278-8726 | ⅜ | .035 | 24 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-221-1 | 4710-00-278-6398 | ¼ | .035 | 52.0 | 4730-00-555-8203 | 2 | 4730-00-289-8619 | 2 | Hyd. |
| 205-076-223-1 | 4710-00-278-6398 | ¼ | .035 | 12 | 4730-00-555-8203 | 2 | 4730-00-289-8619 | 2 | Hyd. |

**Table D-3. (Sheet 5 of 6)**

| TUBE ASSY PART NO. | FABRICATE FROM NSN | STOCK DIM. O.D. | W.T. | L | END FITTING NUT NSN | QTY | SLEEVE NSN | QTY | SYSTEM |
|---|---|---|---|---|---|---|---|---|---|
| 205-076-227-1 | 4710-00-278-8726 | ⅜ | .035 | 33.0 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-231-1 | 4710-00-279-0950 | ½ | .035 | 25.0 | 4730-00-555-0595 | 2 | 4730-00-580-2120 | 2 | Hyd. |
| 205-076-232-1 | 4710-00-278-8726 | ⅜ | .035 | 18.0 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-233-1 | 4710-00-278-6398 | ¼ | .035 | 43 | 4730-00-555-8203 | 1 | 4730-00-289-8619 | 1 | Drain |
| 205-076-235-1 | 4710-00-684-5074 | ⅜ | .035 | 34 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-236-1 | 4710-00-278-8726 | ⅜ | .035 | 12 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-237-1 | 4710-00-278-8726 | ⅜ | .035 | 12 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-238-1 | 4710-00-278-8726 | ⅜ | .035 | 22 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-240-1 | 4710-00-278-8726 | ⅜ | .035 | 40 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-241-1 | 4710-00-278-8726 | ⅜ | .035 | 31 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-242-1 | 4710-00-278-8726 | ⅜ | .035 | 33 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-244-1 | 4710-00-278-8726 | ⅜ | .035 | 25 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-245-1 | 4710-00-278-8726 | ⅜ | .035 | 25 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-246-1 | 4710-00-278-8726 | ⅜ | .035 | 23 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-247-1 | 4710-00-278-8726 | ⅜ | .035 | 23 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-248-1 | 4710-00-278-8726 | ⅜ | .035 | 33 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-249-1 | 4710-00-278-8726 | ⅜ | .035 | 33 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-250-1 | 4710-00-278-8726 | ⅜ | .035 | 27 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-251-1 | 4710-00-278-8726 | ⅜ | .035 | 21 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-252-1 | 4710-00-278-8726 | ⅜ | .035 | 21 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-253-1 | 4710-00-278-8726 | ⅜ | .035 | 27 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-254-1 | 4710-00-278-6398 | ¼ | .035 | 8 | 4730-00-555-8203 | 2 | 4730-00-289-8619 | 2 | Hyd. |
| 205-076-255-1 | 4710-00-278-6398 | ¼ | .035 | 8 | 4730-00-555-8203 | 2 | 4730-00-289-8619 | 2 | Hyd. |
| 205-076-257-1 | 4710-00-278-8726 | ⅜ | .035 | 17 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-258-1 | 4710-00-684-7029 | ½ | .035 | 22 | 4730-00-554-8018 | 2 | 4730-00-580-2120 | 2 | Hyd. |
| 205-076-259-1 | 4710-00-279-0950 | ½ | .035 | 36 | 4730-00-555-0595 | 2 | 4730-00-580-2120 | 2 | Hyd. |
| 99C29 | 4710-00-278-6398 | ¼ | .035 | 11 | 4730-00-287-0289 | 2 | 4730-00-302-8641 | 2 | Pneu. |
| 99C30 | 4710-00-278-6398 | ¼ | .035 | 17 | 4730-00-287-0289 | 2 | 4730-00-302-8641 | 2 | Pneu. |

Table D-3. (Sheet 6 of 6)

| PART NUMBER | BEND NO | DIMENSION "A" FROM "Y" END | BEND RADIUS | DIAL SETTING | BEND ANGLE | END FITTING AND NOTES |
|---|---|---|---|---|---|---|
| | | DIMENSION "B" | TYPE END "Y" | TYPE END "X" | PRESSURE TEST | |
| 205-040-159-1 | 1 | 1.19 | 1.5 | 0 | 80 | |
| | 2 | 16.12 | 1.5 | 273 | 73 | |
| 204-040-215-27 | 1 | 2 1/8 | 15/16 | 0 | 90 | Y - AN818-6D<br>MS20819-6D<br>X - AN818-6D<br>MS20819-6D |
| | 2 | 7 | 15/16 | 90 | 22 | |
| | | 10 1/8 | III | III | N/A | |
| 204-040-722-1 | 1 | 1 | 9/16 | 0 | 21 | Y - AN818-4<br>MS20819-4<br>X - AN818-4<br>MS20819-4 |
| | 2 | 2 1/8 | 9/16 | 190 | 22 | |
| | 3 | 6 3/4 | 9/16 | 210 | 30 | |
| | 4 | 11 1/2 | 9/16 | 210 | 27 | |
| | | 14 | I | I | 125 psi | |
| 204-040-723-1 | 1 | 2 3/4 | 9/16 | 0 | 34 | Y - AN818-4<br>MS20819-4<br>X - AN818-4<br>MS20819-4 |
| | 2 | 5 | 9/16 | 348 | 22 | |
| | 3 | 8 7/8 | 9/16 | 340 | 16 | |
| | | 14 | I | I | 125 psi | |
| 204-060-082-1 | 1 | 1 1/8 | 9/16 | 90 | 0 | Y - AN818-4<br>MS20819-4<br>X - AN818-4<br>MS20819-4 |
| | 2 | 6 13/16 | 9/16 | 60 | 90 | |
| | | 13 | I | I | N/A | |
| 204-060-098-1 | 1 | 1 | 9/16 | 90 | 0 | Y - AN818-4<br>MS20819-4<br>X - AN818-4<br>MS20819-4 |
| | 2 | 3 | 9/16 | 45 | 270 | |
| | | 7 | I | I | I | |
| | | | | | N-A | |
| 204-070-110-153 | 1 | 1 | 9/16 | 0 | 110 | Y - AN818-4D<br>MS20819-4D<br>X - AN818-4D<br>MS20819-4D |
| | | 3 3/4 | III | III | 35 psi | |
| 204-070-110-155 | 1 | 1 5/8 | 9/16 | 0 | 45 | Y - AN818-4D<br>MS20819-4D<br>X - AN818-4D<br>MS20819-4D |
| | | 4 13/16 | III | III | N/A | |
| 204-070-110-3 | 1 | 2 3/16 | 9/16 | 0 | 79 | Y - AN818-4D<br>MS20819-4D<br>X - AN818-4D<br>MS20819-4D |
| | 2 | 3 7/8 | 9/16 | 180 | 79 | |
| | 3 | 13 1/16 | 9/16 | 280 | 90 | |
| | | 15 1/8 | III | III | N/A | |
| 204-070-110-7 | 1 | 1 5/8 | 9/16 | 0 | 55 | Y - AN818-4D<br>MS20819-4D<br>X - AN818-4D<br>MS20819-4D |
| | 2 | 4 1/4 | 9/16 | 180 | 60 | |
| | 3 | 16 3/4 | 9/16 | 180 | 60 | |
| | 4 | 19 1/2 | 9/16 | 0 | 55 | |
| | | 21 1/2 | III | III | N/A | |
| 204-070-110-65 | 1 | 1 9/16 | 9/16 | 0 | 70 | Y - AN818-4D<br>MS20819-4D<br>X - AN818-4D<br>MS20819-4D |
| | 2 | 3 3/8 | 9/16 | 180 | 70 | |
| | 3 | 6 1/8 | 9/16 | 0 | 45 | |
| | 4 | 7 1/2 | 9/16 | 180 | 45 | |
| | 5 | 30 3/8 | 9/16 | 0 | 45 | |
| | 6 | 33 3/4 | 9/16 | 265 | 60 | |
| | | 35 5/8 | III | III | N/A | |
| 204-070-110-67 | 1 | 1 9/16 | 9/16 | 0 | 70 | Y - AN818-4D<br>MS20819-4D<br>X - AN818-4D |
| | 2 | 3 3/8 | 9/16 | 180 | 70 | |
| | 3 | 6 1/8 | 9/16 | 0 | 45 | |

Table D-4. (Sheet 1 of 19)

| PART NUMBER | BEND NO. | DIMENSION "A" FROM "Y" END | BEND RADIUS | DIAL SETTING | BEND ANGLE | END FITTING AND NOTES |
|---|---|---|---|---|---|---|
| | | DIMENSION "B" | TYPE END "Y" | TYPE END "X" | PRESSURE TEST | |
| | 4 | 7½ | 9/16 | 180 | 45 | MS20819-4D |
| | 5 | 30⅛ | 9/16 | 0 | 45 | |
| | 6 | 33¾ | 9/16 | 95 | 60 | |
| | | 35⅝ | III | III | N/A | |
| 204-070-110-71 | 1 | 1 11/16 | 9/16 | 0 | 125 | Y - AN818-4D<br>MS20819-4D<br>X - AN818-4D<br>MS20819-4D |
| | 2 | 3 15/16 | 9/16 | 160 | 35 | |
| | | 9 11/16 | III | III | N/A | |
| 204-070-134-11 | 1 | 1 11/16 | 9/16 | 0 | 86 | Y - AN818-4D<br>MS20819-4D<br>X - AN818-4D<br>MS20819-4D |
| | 2 | 4 5/16 | 9/16 | 102 | 79 | |
| | 3 | 19 1/16 | 9/16 | 235 | 70 | |
| | 4 | 22 13/16 | 9/16 | 55 | 72 | |
| | | 27 5/16 | III | III | N/A | |
| 204-072-265-1 | 1 | 55.1 | .56 | 0 | 88 | Y - AN818-4D<br>MS20819-4D<br>X - AN818-4D<br>MS20819-4D |
| | 2 | 52.6 | .56 | 183 | 92 | |
| | 3 | 44.5 | .56 | 57 | 88 | |
| | 4 | 41.8 | .56 | 327 | 33 | |
| | 5 | 10.1 | .56 | 292 | 53 | |
| | 6 | 8.5 | .56 | 71 | 29 | |
| | 7 | 2.7 | .56 | 19 | 24 | |
| | 8 | 1.5 | .56 | 45 | 18 | |
| | | 57⅛ | III | III | 35 psi | |
| 204-072-267-1 | 1 | 2 3/16 | 9/16 | 0 | 102 | Y - AN818-4D<br>MS20819-4D<br>X - AN818-4D<br>MS20819-4D |
| | 2 | 13¼ | 9/16 | 270 | 25 | |
| | 3 | 28¾ | 9/16 | 24 | 33 | |
| | | 30 15/16 | III | III | N/A | |
| 204-072-268-1 | 1 | 43.6 | .56 | 0 | 85 | Y - AN818-4D<br>MS20819-4D<br>X - AN818-4D<br>MS20819-4D |
| | 2 | 40.83 | .56 | 91 | 37 | |
| | 3 | 9.0 | .56 | 82 | 41 | |
| | | 46⅝ | III | III | 35 psi | |
| 204-072-355-1 | 1 | 11¾ | 9/16 | 0 | 77 | Y - AN818-4D<br>NAS20819-4D<br>X - AN818-4D<br>NAS20819-4D |
| | 2 | 10¼ | 9/16 | 180 | 74 | |
| | 3 | 8 3/16 | 9/16 | 270 | 56 | |
| | 4 | 5⅝ | 9/16 | 200 | 67 | |
| | | 14 | II | | 35 psi | |
| 204-072-364-1 | 1 | 16 1/16 | 9/16 | 0 | 140 | Y - AN818-4D<br>NAS20819-4D<br>X - AN818-4D<br>MS20819-4D |
| | 2 | 13 7/16 | 9/16 | 0 | 35 | |
| | 3 | 1 5/16 | 9/16 | 260 | 24 | |
| | | 20 | I | I | N/A | |
| 205-060-424-1 | N/A | (STRAIGHT TUBE) | | | | Y - AN818-12<br>MS20819-12<br>X - AN818-12<br>MS20819-12 |
| | | 3⅞ | I | I | 100 psi | |
| 205-060-440-1 | 1 | 1 5/16 | 1¼ | 0 | 97 | Y - AN818-8<br>MS20819-8<br>X - AN818-8<br>MS20819-8 |
| | 2 | 9 5/16 | 1¼ | 125 | 11 | |
| | | 11 29/32 | I | I | 100 psi | |
| 205-060-580-1 | 1 | 1⅛ | 1 | 0 | 83 | Y - AN818-6D<br>MS20819-6D<br>X - Scarf Dial |
| | 2 | 4⅝ | 1 | 90 | 5 | |
| | 3 | 18 3/16 | 1 | 20 | 46 | |

**Table D-4. (Sheet 2 of 19)**

| PART NUMBER | BEND NO | DIMENSION "A" FROM "Y" END<br>DIMENSION "B" | BEND RADIUS<br>TYPE END "Y" | DIAL SETTING<br>TYPE END "X" | BEND ANGLE<br>PRESSURE TEST | END FITTING AND NOTES |
|---|---|---|---|---|---|---|
| | 4 | 21⅛ | 1 | 205 | 46 | Setting 220 |
| | | 35⅞ | V | III | N/A | |
| 205-060-581-1 | 1 | 2 | 1 | 0 | 6 | Y - AN818-6D<br>MS20819-6D<br>X - Scarf Dial<br>Setting 320 |
| | 2 | 5 | 1 | 300 | 80 | |
| | 3 | 10⅛ | 1 | 40 | 55 | |
| | 4 | 17⅝ | 1 | 62 | 40 | |
| | 5 | 20⅝ | 1 | 255 | 27 | |
| | 6 | 26 1/6 | 1 | 100 | 81 | |
| | 7 | 53 | 1 | 350 | 52 | |
| | 8 | 61 11/16 | 1 | 140 | 74 | |
| | | 66 11/16 | V | III | N/A | |
| 205-060-582-1 | 1 | 3⅞ | 1¾ | 0 | 83 | Y - AN818-12D<br>MS20819-12D<br>X - Scarf Dial<br>Setting 60 |
| | 2 | 11¾ | 1¾ | 90 | 56 | |
| | 3 | 21⅜ | 1¾ | 90 | 39 | |
| | 4 | 29 | 1¾ | 165 | 73 | |
| | 5 | 55⅝ | 1¾ | 60 | 54 | |
| | 6 | 65⅛ | 1¾ | 240 | 76 | |
| | | 71 | V | I | N/A | |
| 205-060-583-1 | 1 | 1½ | 9/16 | 0 | 55 | Y - AN818-4D<br>MS20819-4D<br>X - Scarf Dial<br>Setting 110 |
| | 2 | 4 | 9/16 | 180 | 55 | |
| | 3 | 9⅝ | 9/16 | 90 | 50 | |
| | 4 | 13¼ | 9/16 | 90 | 34 | |
| | 5 | 15⅛ | 9/16 | 270 | 54 | |
| | 6 | 34⅞ | 9/16 | 110 | 26 | |
| | 7 | 42¼ | 9/16 | 290 | 47 | |
| | | 46½ | V | III | N/A | |
| 205-060-584-1 | 1 | 2¾ | 1¾ | 0 | 87 | Y - AN818-12D<br>MS20819-12D<br>X - AN818-12D<br>MS20819-12D |
| | 2 | 12 | 1¾ | 265 | 34 | |
| | 3 | 26 15/16 | 1¾ | 262 | 94 | |
| | 4 | 36¼ | 1¾ | 345 | 8 | |
| | | 40 | I | I | 100 psi | |
| 205-060-585-1 | 1 | 2 5/16 | 1¾ | 0 | 90 | Y - AN818-12D<br>MS20819-12D<br>X - AN818-12D<br>MS20819-12D |
| | 2 | 9 3/16 | 1¾ | 270 | 15 | |
| | | 13 3/16 | I | I | 100 psi | |
| 205-060-586-1 | 1 | 3¼ | 1½ | 0 | 90 | Y - AN818-10D<br>MS20819-10D<br>X - AN818-10D<br>MS20189-10D |
| | 2 | 18⅛ | 1½ | 90 | 90 | |
| | 3 | 25⅝ | 1½ | 180 | 88 | |
| | 4 | 36⅝ | 1½ | 0 | 61 | |
| | 5 | 40⅞ | 1½ | 0 | 26 | |
| | | 43¾ | I | I | 100 psi | |
| 205-060-587-1 | 1 | 2⅜ | 1½ | 0 | 88 | Y - AN818-10D<br>MS20819-10D<br>X - AN818-10D<br>MS20819-10D |
| | 2 | 14¼ | 1½ | 180 | 87 | |
| | 3 | 23⅜ | 1½ | 270 | 88 | |
| | 4 | 33 13/16 | 1½ | 0 | 90 | |
| | | 37 9/16 | I | I | N/A | |
| 205-060-589-1 | 1 | 2 7/16 | 1 | 0 | 83 | Y - AN818-6D<br>MS20819-6D<br>X - Scarf Dial<br>Setting 81 |
| | 2 | 5 15/16 | 1 | 90 | 67 | |
| | 3 | 8⅜ | 1 | 171 | 90 | |
| | | 11⅜ | V | III | N/A | |

**Table D-4. (Sheet 3 of 19)**

| PART NUMBER | BEND NO | DIMENSION "A" FROM "Y" END | BEND RADIUS | DIAL SETTING | BEND ANGLE | END FITTING AND NOTES |
|---|---|---|---|---|---|---|
| | | DIMENSION "B" | TYPE END "Y" | TYPE END "X" | PRESSURE TEST | |
| 205-060-590-1 | 1 | 1½ | 1 | 0 | 83 | Y - AN818-6D<br>MS20819-6D<br>X - Scarf Dial<br>Setting 235 |
| | 2 | 9⅝ | 1 | 165 | 85 | |
| | 3 | 14 5/16 | 1 | 50 | 85 | |
| | 4 | 17¼ | 1 | 230 | 90 | |
| | 5 | 21¼ | 1 | 230 | 25 | |
| | 6 | 24⅝ | 1 | 50 | 22 | |
| | 7 | 31¼ | 1 | 155 | 15 | |
| | 8 | 40½ | 1 | 50 | 37 | |
| | 9 | 42¾ | 1 | 235 | 45 | |
| | | 47⅛ | V | III | N/A | |
| 205-060-591-1 | 1 | 1 | 1 | 0 | 80 | Y - AN818-6<br>MS20819-6<br>X - AN818-6<br>MS20819-6 |
| | | 6 5/16 | I | I | N/A | |
| 205-060-592-1 | 1 | 1 5/16 | 1 | 0 | 70 | Y - AN818-6<br>MS20819-6<br>X - AN818-6<br>MS20819-6 |
| | 2 | 12 7/16 | 1 | 75 | 50 | |
| | | 14¾ | I | I | N/A | |
| 205-060-593-1 | 1 | 11¼ | 1 | 0 | 15 | Y - AN818-6<br>MS20819-6<br>X - AN818-6<br>MS20819-6 |
| | 2 | 13¼ | 1 | 180 | 15 | |
| | 3 | 15¼ | 1 | 270 | 76 | |
| | | 30 9/16 | I | I | N/A | |
| 205-060-594-1 | 1 | 2¾ | 1¾ | 0 | 82 | Y - AN818-12<br>MS20819-12<br>X - AN818-12<br>MS20819-12 |
| | 2 | 16⅛ | 1¾ | 210 | 78 | |
| | 3 | 22½ | 1¾ | 290 | 67 | |
| | 4 | 31¾ | 1¾ | 357 | 52 | |
| | | 36¼ | I | I | 100 psi | |
| 205-060-648-1 | 1 | 8 7/16 | 1½ | 0 | 28 | Y - AN818-10D<br>MS20819-10D<br>X - AN818-10D<br>MS20819-10D |
| | 2 | 11 7/16 | 1½ | 180 | 28 | |
| | 3 | 20 1/16 | 1½ | 270 | 8 | |
| | 4 | 28 1/16 | 1½ | 180 | 8 | |
| | 5 | 30 5/16 | 1½ | 0 | 8 | |
| | | 33 1/16 | I | I | 35 psi | |
| 205-060-649-1 | 1 | 8⅛ | 1½ | 0 | 28 | Y - AN818-10D<br>MS20819-10D<br>X - AN818-10D<br>MS20819-10D |
| | 2 | 11⅛ | 1½ | 180 | 28 | |
| | 3 | 19⅝ | 1½ | 290 | 12 | |
| | 4 | 28⅛ | 1½ | 200 | 8 | |
| | 5 | 30 5/16 | 1½ | 20 | 8 | |
| | | 33 7/16 | I | I | 35 psi | |
| 205-060-690-1 | 1 | 2 11/16 | 1 | 0 | 25 | Y - AN818-6D<br>MS20819-6D<br>X - Scarf Dial<br>Setting 210 |
| | 2 | 4 3/16 | 1 | 180 | 62 | |
| | 3 | 7 7/16 | 1 | 0 | 32 | |
| | 4 | 26 11/16 | 1 | 30 | 46 | |
| | 5 | 29 7/16 | 1 | 210 | 46 | |
| | | 43 13/16 | III | V | N/A | |
| 205-060-691-1 | 1 | 2 | 1¾ | 0 | 61 | Y - AN818-12D<br>MS20819-12D<br>X - AN818-12D<br>MS20819-12D |
| | 2 | 6 | 1¾ | 180 | 60 | |
| | 3 | 13⅝ | 1¾ | 270 | 12 | |
| | 4 | 16 3/16 | 1¾ | 90 | 12 | |
| | | 18⅝ | I | I | N/A | |

**Table D-4. (Sheet 4 of 19)**

| PART NUMBER | BEND NO | DIMENSION "A" FROM "Y" END | BEND RADIUS | DIAL SETTING | BEND ANGLE | END FITTING AND NOTES |
|---|---|---|---|---|---|---|
| | | DIMENSION "B" | TYPE END "Y" | TYPE END "X" | PRESSURE TEST | |
| 205-070-436-1 | 1 | 2 5/16 | 9/16 | 0 | 49 | Y - AN818-4D<br>MS20819-4D<br>X - AN818-4D<br>MS20819-4D |
| | 2 | 4 7/16 | 9/16 | 180 | 49 | |
| | 3 | 15 7/16 | 9/16 | 180 | 90 | |
| | 4 | 18 | 9/16 | 330 | 90 | |
| | 5 | 19⅝ | 9/16 | 60 | 25 | |
| | | 21¾ | III | III | N/A | |
| 205-070-439-1 | 1 | 3½ | 9/16 | 0 | 45 | Y - AN818-4D<br>MS20819-4D<br>X - AN818-4D<br>MS20819-4D |
| | 2 | 7 3/16 | 9/16 | 180 | 43 | |
| | | 11 1/14 | III | III | 35 psi | |
| 205-070-440-1 | 1 | 2 9/16 | 9/16 | 0 | 9 | Y - AN818-4D<br>MS20819-4D<br>X - AN818-4D<br>MS20819-4D |
| | 2 | 17 11/16 | 9/16 | 180 | 8 | |
| | | 30 15/16 | III | III | N/A | |
| 205-070-441-1 | 1 | 1 1/16 | 9/16 | 0 | 90 | Y - AN818-4D<br>MS20819-4D<br>X - AN818-4D<br>MS20819-4D |
| | 2 | 3 | 9/16 | 0 | 40 | |
| | 3 | 5 5/16 | 9/16 | 180 | 40 | |
| | 4 | 8 | 9/16 | 90 | 45 | |
| | | 9⅞ | III | III | 35 psi | |
| 205-070-448-1 | 1 | 2⅝ | 9/16 | 0 | 180 | Y - AN818-4D<br>MS20819-4D<br>X - AN818-4D<br>MS20819-4D |
| | 2 | 5⅛ | 9/16 | 180 | 90 | |
| | | 7½ | III | III | 35 psi | |
| 205-070-475-1 | 1 | 3½ | 9/16 | 0 | 20 | Y - AN818-4D<br>MS20819-4D<br>X - AN818-4D<br>MS20819-4D |
| | 2 | 7⅝ | 9/16 | 105 | 63 | |
| | 3 | 9⅛ | 9/16 | 260 | 62 | |
| | 4 | 11 5/16 | 9/16 | 240 | 88 | |
| | 5 | 13⅞ | 9/16 | 55 | 86 | |
| | 6 | 17 | 9/16 | 328 | 14 | |
| | 7 | 20⅛ | 9/16 | 148 | 15 | |
| | 8 | 26 13/16 | 9/16 | 53 | 13 | |
| | 9 | 28⅛ | 9/16 | 233 | 13 | |
| | | 33⅝ | III | III | 35 psi | |
| 205-070-476-1 | 1 | 1⅛ | 9/16 | 0 | 20 | Y - AN818-4D<br>MS20819-4D<br>X - AN818-4D<br>MS20819-4D |
| | 2 | 2 9/16 | 9/16 | 180 | 25 | |
| | | 9⅛ | III | III | 35 psi | |
| 205-070-484-1 | 1 | 1¼ | 9/16 | 0 | 52 | Y - AN818-4D<br>MS20819-4D<br>X - AN818-4D<br>MS20819-4D |
| | 2 | 2¾ | 9/16 | 180 | 78 | |
| | 3 | 14¼ | 9/16 | 315 | 24 | |
| | | 15⅞ | III | III | 150 psi | |
| 205-070-485-1 | 1 | 2⅛ | 9/16 | 0 | 180 | Y - AN818-4D<br>MS20819-4D<br>X - AN818-4D<br>MS20819-4D |
| | 2 | 4 15/16 | 9/16 | 180 | 90 | |
| | | 7 7/16 | III | III | N/A | |
| 205-070-486-1 | 1 | 1¾ | 9/16 | 0 | 50 | Y - AN818-4D<br>MS20819-4D<br>X - AN818-4D |
| | 2 | 4½ | 9/16 | 180 | 50 | |
| | 3 | 16 3/16 | 9/16 | 180 | 38 | |

Table D-4. (Sheet 5 of 19)

| PART NUMBER | BEND NO | DIMENSION "A" FROM "Y" END | BEND RADIUS | DIAL SETTING | BEND ANGLE | END FITTING AND NOTES |
|---|---|---|---|---|---|---|
| | | DIMENSION "B" | TYPE END "Y" | TYPE END "X" | PRESSURE TEST | |
| 205-060-692-1 | 1 | 2 7/16 | 1¾ | 0 | 35 | Y - AN818-12D<br>MS20819-12D<br>X - AN818-12D<br>MS20819-12D |
| | 2 | 5⅝ | 1¾ | 335 | 55 | |
| | | 8⅞ | I | I | N/A | |
| 205-060-693-1 | 1 | 7 | 1¾ | 0 | 54 | Y - AN818-12D<br>MS20819-12D<br>X - AN818-12D<br>MS20819-12D |
| | 2 | 12 9/16 | 1¾ | 180 | 54 | |
| | 3 | 25 7/16 | 1¾ | 90 | 12 | |
| | 4 | 27 15/16 | 1¾ | 270 | 12 | |
| | | 30 11/16 | I | I | N/A | |
| 205-060-694-1 | 1 | 1¾ | 1¾ | 0 | 30 | Y - AN818-12D<br>MS20819-12D<br>X - AN818-12D<br>MS20819-12D |
| | 2 | 9 | 1¾ | 90 | 5 | |
| | 3 | 11 13/16 | 1¾ | 270 | 5 | |
| | | 14 | I | I | 35 psi | |
| 205-060-695-1 | 1 | 1⅛ | 3 | 0 | 90 | Y - AN818-16D<br>MS20819-16D<br>X - AN818-16D<br>MS20819-16D |
| | 2 | 24⅛ | 3 | 270 | 41 | |
| | 3 | 29⅝ | 3 | 90 | 41 | |
| | | 33¾ | I | I | 35 psi | |
| 205-060-696-1 | 1 | 2¾ | 3 | 0 | 27 | Y - AN818-16D<br>MS20819-16D<br>X - Scarf Dial<br>Setting 96 |
| | 2 | 8 3/16 | 3 | 180 | 24 | |
| | 3 | 18 7/16 | 3 | 343 | 36 | |
| | 4 | 25 | 3 | 151 | 46 | |
| | | 31 | I | V | N/A | |
| 205-060-697-1 | 1 | 1 9/16 | 1 | 0 | 50 | Y - AN818-6D<br>MS20819-6D<br>X - Scarf Dial<br>Setting 85 |
| | 2 | 4⅛ | 1 | 180 | 50 | |
| | 3 | 9⅛ | 1 | 90 | 55 | |
| | 4 | 11 7/16 | 1 | 90 | 26 | |
| | 5 | 13 1/16 | 1 | 270 | 53 | |
| | 6 | 33 9/16 | 1 | 100 | 28 | |
| | 7 | 40 9/16 | 1 | 10 | 9 | |
| | 8 | 44⅛ | 1 | 265 | 52 | |
| | | 46 9/16 | III | V | N/A | |
| 205-061-213-1 | 1 | 1 9/16 | 3 | 0 | 85 | Y - AN818-16D<br>MS20819-16D<br>X - AN818-16D<br>MS20819-16D |
| | 2 | 11⅛ | 3 | 90 | 82 | |
| | | 16⅞ | I | I | N/A | |
| 205-061-214-1 | 1 | 21 | 3 | 0 | 40 | Y - AN818-16D<br>MS20819-16D<br>X - Scarf Dial<br>Setting 140 |
| | 2 | 25¼ | 3 | 180 | 40 | |
| | | 49 | I | V | N/A | |
| 205-061-600-1 | 1 | 2½ | 1½ | 0 | 90 | Y - AN818-10D<br>MS20819-10D<br>X - AN818-10D<br>MS20819-10D |
| | 2 | 10 | 1½ | 90 | 36 | |
| | | 17½ | I | I | 35 psi | |
| 205-061-601-1 | 1 | 2¼ | 1½ | 0 | 90 | Y - AN818-10D<br>MS20819-10D<br>X - AN818-10D<br>MS20819-10D |
| | 2 | 9⅞ | 1½ | 90 | 18 | |
| | | 16 5/16 | I | I | 35 psi | |
| 205-061-604-1 | 1 | ⅞ | 9/16 | 0 | 135 | Y - AN818-4D<br>MS20819-4D |
| | 2 | 3 | 9/16 | 180 | 45 | |

Table D-4. (Sheet 6 of 19)

| PART NUMBER | BEND NO. | DIMENSION "A" FROM "Y" END | BEND RADIUS | DIAL SETTING | BEND ANGLE | END FITTING AND NOTES |
|---|---|---|---|---|---|---|
| | | DIMENSION "B" | TYPE END "Y" | TYPE END "X" | PRESSURE TEST | |
| | 3 | 4¼ | 9/16 | 270 | 25 | X - AN818-4D<br>MS20819-4D |
| | 4 | 5½ | 9/16 | 90 | 36 | |
| | | 6 13/16 | III | III | 35 psi | |
| 205-061-606-1 | 1 | 2 7/16 | 1¼ | 0 | 24 | Y - AN818-8D<br>MS20819-8D<br>X - AN818-8D<br>MS20819-8D |
| | 2 | 5 11/16 | 1¼ | 180 | 24 | |
| | | 17½ | I | I | 35 psi | |
| 205-061-607-1 | 1 | 3 11/16 | 1½ | 0 | 15 | Y - AN818-8D<br>MS20819-8D<br>X - AN818-8D<br>MS20819-8D |
| | 2 | 11 7/16 | 1½ | 180 | 15 | |
| | | 17 1/16 | I | I | 35 psi | |
| 205-061-608-1 | N/A | (STRAIGHT TUBE) | | | | Y - AN818-8D<br>MS20819-8D<br>X - AN818-8D<br>MS20819-8D |
| | | 3 7/16 | I | I | 35 psi | |
| 205-061-609-1 | N/A | (STRAIGHT TUBE) | | | | Y - AN818-8D<br>MS20819-8D<br>X - AN818-8D<br>MS20819-8D |
| | | 2 7/32 | I | I | 35 psi | |
| 205-061-610-1 | 1 | 1 9/16 | 15/16 | 0 | 77 | Y - AN818-6D<br>MS20819-6D<br>X - AN818-6D<br>MS20819-6D |
| | 2 | 8 1/16 | 15/16 | 180 | 77 | |
| | | 30¾ | III | III | 35 psi | |
| 205-061-611-1 | 1 | 3¼ | 1 | 0 | 14 | Y - AN818-6D<br>MS20819-6D<br>X - AN818-6D<br>MS20819-6D |
| | 2 | 4⅞ | 1 | 180 | 105 | |
| | 3 | 14⅞ | 1 | 270 | 35 | |
| | 4 | 26 11/16 | 1 | 90 | 27 | |
| | | 30⅛ | III | III | 35 psi | |
| 205-061-612-1 | 1 | 3⅝ | 1 | 0 | 8 | Y - AN818-6D<br>MS20819-6D<br>X - AN818-6D<br>MS20819-6D |
| | 2 | 6 11/16 | 1 | 90 | 25 | |
| | 3 | 20⅛ | 1 | 254 | 23 | |
| | | 23 9/16 | III | III | 30 psi | |
| 205-061-614-1 | 1 | 1 3/16 | 1¼ | 0 | 66 | Y - AN818-8D<br>MS20819-8D<br>X - Scarf Dial<br>Setting 210 |
| | 2 | 12 | 1¼ | 165 | 81 | |
| | | 15¼ | I | V | N/A | |
| 205-061-615-1 | 1 | 1 1/16 | 1¼ | 0 | 63 | Y - AN818-8D<br>MS20819-8D<br>X - Scarf Dial<br>Setting 225 |
| | 2 | 11 3/16 | 1¼ | 165 | 78 | |
| | | 14 1/16 | I | V | N/A | |
| 205-061-616-1 | 1 | 1 3/16 | 1¼ | 0 | 70 | Y - AN818-8D<br>MS20819-8D<br>X - Scarf Dial<br>Setting 151 |
| | 2 | 12 3/16 | 1¼ | 192 | 85 | |
| | | 15¼ | I | V | N/A | |
| 205-061-617-1 | 1 | 1⅛ | 1¼ | 0 | 55 | Y - AN818-8D<br>MS20819-8D<br>X - Scarf Dial<br>Setting 150 |
| | 2 | 11 3/16 | 1¼ | 195 | 76 | |
| | | 14 1/16 | I | V | N/A | |

Table D-4. (Sheet 7 of 19)

| PART NUMBER | BEND NO. | DIMENSION "A" FROM "Y" END | BEND RADIUS | DIAL SETTING | BEND ANGLE | END FITTING AND NOTES |
|---|---|---|---|---|---|---|
|  |  | DIMENSION "B" | TYPE END "Y" | TYPE END "X" | PRESSURE TEST |  |
| 205-061-618-1 | 1 | 1 1/16 | 9/16 | 0 | 38 | Y - AN818-4D<br>MS20819-4D<br>X - Scarf Dial<br>Setting 220 |
|  | 2 | 9 11/32 | 9/16 | 180 | 51 |  |
|  |  | 10 15/16 | III | V | N/A |  |
| 205-061-619-1 | 1 | 1 1/16 | 9/16 | 0 | 45 | Y - AN818-4D<br>MS20819-4D<br>X - Scarf Dial<br>Setting 140 |
|  | 2 | 9⅛ | 9/16 | 185 | 68 |  |
|  |  | 11⅜ | III | V | N/A |  |
| 205-061-624-1 | 1 | 1 9/16 | 1 | 0 | 61 | Y - AN818-6D<br>MS20819-6D<br>X - AN818-6D<br>MS20819-6D |
|  | 2 | 6⅛ | 1 | 180 | 18 |  |
|  |  | 17⅛ | III | III | 35 psi |  |
| 205-061-645-1 | 1 | 1¼ | 1¼ | 0 | 102 | Y - AN818-8D<br>MS20819-8D<br>X - AN818-8D<br>MS20819-8D |
|  | 2 | 5¾ | 1¼ | 180 | 61 |  |
|  |  | 8¼ | I | I | 35 psi |  |
| 205-061-647-1 | 1 | 1 5/16 | 1½ | 0 | 25 | Y - AN818-10D<br>MS20819-10D<br>X - AN818-10-D<br>MS20819-10D |
|  | 2 | 3⅞ | 1½ | 180 | 25 |  |
|  | 3 | 10¼ | 1½ | 180 | 23 |  |
|  | 4 | 14¼ | 1½ | 0 | 21 |  |
|  |  | 18 3/16 | I | I | 35 psi |  |
| 205-061-649-1 | 1 | 1¼ | 1½ | 0 | 64 | Y - AN818-10D<br>MS20819-10D<br>X - AN818-10D<br>MS20819-10D |
|  | 2 | 7⅛ | 1½ | 92 | 90 |  |
|  |  | 19 5/16 | I | I | 35 psi |  |
| 205-061-650-1 | 1 | 1 3/16 | 1½ | 0 | 63 | Y - AN818-10D<br>MS20819-10D<br>X - AN818-10D<br>MS20819-10D |
|  | 2 | 6 7/16 | 1½ | 268 | 90 |  |
|  |  | 18 9/16 | I | I | 35 psi |  |
| 205-061-651-1 | 1 | 1½ | 1¼ | 0 | 55 | Y - AN818-8D<br>MS20819-8D<br>X - Scarf Dial<br>Setting 198 |
|  | 2 | 7 | 1¼ | 95 | 92 |  |
|  | 3 | 17 1/16 | 1¼ | 198 | 94 |  |
|  |  | 20 5/16 | I | V | N/A |  |
| 205-061-652-1 | 1 | 1¾ | 1¼ | 0 | 54 | Y - AN818-8D<br>MS20819-8D<br>X - Scarf Dial<br>Setting 178 |
|  | 2 | 7 | 1¼ | 268 | 88 |  |
|  | 3 | 17 | 1¼ | 178 | 88 |  |
|  |  | 20⅛ | I | V | N/A |  |
| 205-061-653-1 | 1 | 2⅝ | 9/16 | 0 | 28 | Y - AN818-4D<br>MS20819-4D<br>X - Scarf Dial<br>Setting 185 |
|  | 2 | 8⅞ | 9/16 | 90 | 84 |  |
|  | 3 | 18⅝ | 9/16 | 185 | 87 |  |
|  |  | 21¼ | III | V | N/A |  |
| 205-061-654-1 | 1 | 2½ | 9/16 | 0 | 45 | Y - AN828-4D<br>MS20819-4D<br>X - Scarf Dial<br>Setting 180 |
|  | 2 | 8⅞ | 9/16 | 270 | 90 |  |
|  | 3 | 18½ | 9/16 | 180 | 90 |  |
|  |  | 21 | III | V | N/A |  |
| 205-061-655-1 | 1 | 2 1/16 | 1 | 0 | 71 | Y - AN818-6D<br>MS20819-6D |
|  | 2 | 7 1/16 | 1 | 178 | 70 |  |

Table D-4. (Sheet 8 of 19)

| PART NUMBER | BEND NO. | DIMENSION "A" FROM "Y" END<br>DIMENSION "B" | BEND RADIUS<br>TYPE END "Y" | DIAL SETTING<br>TYPE END "X" | BEND ANGLE<br>PRESSURE TEST | END FITTING AND NOTES |
|---|---|---|---|---|---|---|
| | 3 | 14 13/16 | 1 | 178 | 91 | X - AN818-6D<br>MS20819-6D |
| | 4 | 23¼ | 1 | 90 | 92 | |
| | | 26 | III | III | N/A | |
| 205-061-659-1 | 1 | 3⅝ | 1¼ | 0 | 26 | Y - AN818-8D<br>MS20819-8D<br>X - AN818-8D<br>MS20819-8D |
| | 2 | 6 9/16 | 1¼ | 180 | 26 | |
| | | 11 13/16 | I | I | 60 psi | |
| 205-061-661-1 | 1 | 5½ | 1 | 0 | 33 | Y - AN818-6D<br>MS20819-6D<br>X - AN818-6D<br>MS20819-6D |
| | 2 | 7⅛ | 1 | 180 | 33 | |
| | 3 | 15⅛ | 1 | 197 | 89 | |
| | | 22⅛ | III | III | 60 psi | |
| 205-061-662-1 | 1 | 4⅛ | 1 | 0 | 90 | Y - AN818-6D<br>MS20819-6D<br>X - AN818-6D<br>MS20819-6D |
| | | 10⅝ | III | III | 60 psi | |
| 205-061-663-1 | 1 | 1 | 1¼ | 0 | 90 | Y - AN818-8D<br>MS20819-8D<br>X - AN818-8D<br>MS20819-8D |
| | 2 | 11 1/16 | 1¼ | 0 | 37 | |
| | 3 | 14¾ | 1¼ | 180 | 37 | |
| | 4 | 22¾ | 1¼ | 230 | 62 | |
| | 5 | 25⅛ | 1¼ | 50 | 67 | |
| | | 27¾ | I | I | 35 psi | |
| 205-061-664-1 | N/A | (STRAIGHT TUBE) | | | | Y - AN818-8D<br>MS20819-8D<br>X - AN818-8D<br>MS20819-8D |
| | | 13½ | I | I | 60 psi | |
| 205-061-668-1 | 1 | 2¾ | 1¼ | 0 | 90 | Y - AN818-8D<br>MS20819-8D<br>X - AN818-8D<br>MS20819-8D |
| | 2 | 8¼ | 1¼ | 265 | 10 | |
| | | 10⅝ | I | I | 80 psi | |
| 205-061-669-1 | 1 | 1 7/16 | 1¼ | 0 | 83 | Y - AN818-8D<br>MS20819-8D<br>X - AN818-8D<br>MS20819-8D |
| | 2 | 7 11/16 | 1¼ | 164 | 79 | |
| | 3 | 11¾ | 1¼ | 254 | 15 | |
| | | 13 15/16 | I | I | 100 psi | |
| 205-061-670-1 | 1 | 1¾ | 1¼ | 0 | 36 | Y - AN818-8D<br>MS20819-8D<br>X - AN818-8D<br>MS20819-8D |
| | 2 | 3½ | 1¼ | 175 | 38 | |
| | 3 | 9½ | 1¼ | 265 | 19 | |
| | 4 | 13 11/16 | 1¼ | 175 | 26 | |
| | 5 | 16⅛ | 1¼ | 352 | 26 | |
| | 6 | 24 9/16 | 1¼ | 10 | 30 | |
| | 7 | 27 | 1¼ | 155 | 26 | |
| | 8 | 31 7/16 | 1¼ | 340 | 12 | |
| | 9 | 32¾ | 1¼ | 160 | 14 | |
| | | 33 15/16 | I | I | 100 psi | |
| 205-061-671-1 | 1 | 2 | 1¼ | 0 | 135 | Y - AN818-8D<br>MS20819-8D<br>X - AN818-8D<br>MS20819-8D |
| | 2 | 8 11/16 | 1¼ | 185 | 88 | |
| | 3 | 13⅛ | 1¼ | 275 | 35 | |
| | 4 | 15⅜ | 1¼ | 25 | 48 | |
| | | 29 15/16 | I | I | 100 psi | |

Table D-4. (Sheet 9 of 19)

| PART NUMBER | BEND NO. | DIMENSION "A" FROM "Y" END | BEND RADIUS | DIAL SETTING | BEND ANGLE | END FITTING AND NOTES |
|---|---|---|---|---|---|---|
| | | DIMENSION "B" | TYPE END "Y" | TYPE END "X" | PRESSURE TEST | |
| 205-061-674-1 | 1 | 3¼ | 1½ | 0 | 90 | Y - AN818-10<br>MS20819-10<br>X - AN818-10<br>MS20819-10 |
| | | 9¾ | I | I | 60 psi | |
| 205-061-675-1 | 1 | 2 | 1 | 0 | 27 | Y - AN818-6<br>MS20819-6<br>X - AN818-6<br>MS20819-6 |
| | 2 | 8 | 1 | 79 | 22 | |
| | | 9 11/16 | I | I | 60 psi | |
| 205-061-685-1 | 1 | 1 1/16 | 9/16 | 0 | 114 | Y - AN818-4D<br>MS20819-4D<br>X - AN818-4D<br>MS20819-4D |
| | 2 | 9 1/16 | 9/16 | 117 | 34 | |
| | 3 | 16 15/16 | 9/16 | 156 | 56 | |
| | 4 | 19⅛ | 9/16 | 343 | 56 | |
| | | 21⅛ | III | III | N/A | |
| 205-062-614-1 | 1 | 1 | 1¼ | 0 | 3 | Y - AN818-8D<br>MS20819-8D<br>X - AN818-8D<br>MS20819-8D |
| | | 23⅞ | I | I | 35 psi | |
| 205-062-662-1 | 1 | 5 9/16 | 15/16 | 0 | 95 | Y - AN818-6D<br>MS20819-6D<br>X - AN818-6D<br>MS20819-6D |
| | | 7¾ | I | I | 35 psi | |
| 205-062-663-1 | 1 | 24⅞ | 15/16 | 0 | 14 | Y - AN818-6D<br>MS20819-6D<br>X - AN818-6D<br>MS2089-6D |
| | 2 | 22 1/16 | 15/16 | 180 | 99 | |
| | 3 | 12⅜ | 15/16 | 159 | 56 | |
| | 4 | 8¾ | 15/16 | 339 | 59 | |
| | 5 | 4 11/16 | 15/16 | 0 | 20 | |
| | 6 | 1⅝ | 15/16 | 170 | 30 | |
| | | 26 5/16 | I | I | 35 psi | |
| 205-062-680-1 | 1 | 18 | 1¼ | 0 | 32 | Y - AN 818-8D<br>MS20819-8D<br>X - AN818-8D<br>MS20819-8D |
| | 2 | 14 15/16 | 1¼ | 296 | 18 | |
| | 3 | 4¾ | 1¼ | 259 | 8 | |
| | 4 | 2¼ | 1¼ | 79 | 7 | |
| | | 19¾ | I | I | 35 psi | |
| 205-062-681-1 | 1 | 21⅝ | 1¼ | 0 | 96 | Y - AN818-8D<br>MS20818-8D<br>X - AN818-8D<br>MS20819-8D |
| | 2 | 17 3/16 | 1¼ | 90 | 9 | |
| | 3 | 5 13/16 | 1¼ | 90 | 6 | |
| | 4 | 2 11/16 | 1¼ | 270 | 6 | |
| | | 22 9/16 | I | I | 35 psi | |
| 205-070-365-1 | 1 | 27⅝ | 9/16 | 0 | 39.5 | Y - AN818-4D<br>MS20819-4D<br>X - AN819-4D<br>MS20819-4D |
| | 2 | 25 13/16 | 9/16 | 188.5 | 39 | |
| | 3 | 17¾ | 9/16 | 105 | 93.5 | |
| | 4 | 5 5/16 | 9/16 | 281 | 90 | |
| | 5 | 1¼ | 9/16 | 190 | 20 | |
| | | 30 13/16 | I | I | | |
| 205-070-366-1 | 1 | 8¾ | 9/16 | 0 | 41 | Y - AN818-4D<br>MS20819-4D<br>X - AN818-4D<br>MS20819-4D |
| | 2 | 6 13/16 | 9/16 | 172 | 38 | |
| | 3 | 2 13/16 | 9/16 | 21.5 | 85 | |
| | 4 | 1¾ | 9/16 | 108.5 | 20 | |
| | | 10 5/16 | I | I | | |

Table D-4. (Sheet 10 of 19)

| PART NUMBER | BEND NO. | DIMENSION "A" FROM "Y" END | BEND RADIUS | DIAL SETTING | BEND ANGLE | END FITTING AND NOTES |
|---|---|---|---|---|---|---|
| | | DIMENSION "B" | TYPE END "Y" | TYPE END "X" | PRESSURE TEST | |
| | 4 | 17½ | 9/16 | 0 | 38 | MS20819-4D |
| | | 20¼ | III | III | 150 psi | |
| 205-070-487-1 | 1 | 3½ | 9/16 | 0 | 20 | Y - AN818-4D<br>MS20819-4D<br>X - AN818-4D<br>MS20819-4D |
| | 2 | 7⅝ | 9/16 | 105 | 63 | |
| | 3 | 9⅛ | 9/16 | 260 | 62 | |
| | 4 | 11 5/16 | 9/16 | 258 | 85 | |
| | 5 | 14 | 9/16 | 74 | 81 | |
| | 6 | 17⅛ | 9/16 | 347 | 14 | |
| | 7 | 19 3/16 | 9/16 | 167 | 15 | |
| | 8 | 26 15/16 | 9/16 | 62 | 13 | |
| | 9 | 28½ | 9/16 | 242 | 13 | |
| | | 33 11/16 | III | III | 35 psi | |
| 205-070-488-1 | 1 | 1⅛ | 9/16 | 0 | 20 | Y - AN818-4D<br>MS20819-4D<br>X - AN818-4D<br>MS20819-4D |
| | 2 | 2 9/16 | 9/16 | 180 | 25 | |
| | | 9⅛ | III | III | 150 psi | |
| 205-070-490-1 | 1 | 2⅞ | 9/16 | 0 | 9 | Y - AN818-4D<br>MS20819-4D<br>X - AN818-4D<br>MS20819-4D |
| | 2 | 18⅝ | 9/16 | 180 | 7 | |
| | | 31⅛ | III | III | 150 psi | |
| 205-070-491-1 | 1 | 1 5/16 | 9/16 | 0 | 115 | Y - AN818-4D<br>MS20819-4D<br>X - AN818-4D<br>MS20819-4D |
| | 2 | 4 7/16 | 9/16 | 90 | 56 | |
| | 3 | 10¾ | 9/16 | 252 | 40 | |
| | 4 | 32 1/16 | 9/16 | 85 | 35 | |
| | 5 | 33½ | 9/16 | 250 | 35 | |
| | | 36 7/16 | III | III | N/A | |
| 205-072-208-1 | 1 | 42 11/16 | 9/16 | 0 | 39 | Y - AN818-4D<br>MS20819-4D<br>X - AN818-4D<br>MS20819-4D |
| | 2 | 41 | 9/16 | 169 | 39 | |
| | 3 | 33 | 9/16 | 90 | 90 | |
| | 4 | 20¾ | 9/16 | 180 | 90 | |
| | 5 | 12 3/16 | 9/16 | 90 | 37 | |
| | 6 | 9 15/16 | 9/16 | 176 | 35 | |
| | 7 | 8 11/16 | 9/16 | 275 | 90 | |
| | 8 | 4 3/16 | 9/16 | 144 | 48 | |
| | 9 | 2¼ | 9/16 | 182 | 47 | |
| | | 44 3/16 | I | I | | |
| 205-072-278-1 | 1 | 1¼ | 9/16 | 0 | 150 | Y - AN818-4D<br>MS20819-4D<br>X - AN818-4D<br>MS20819-4D |
| | 2 | 6⅛ | 9/16 | 70 | 21 | |
| | 3 | 13⅜ | 9/16 | 167 | 42 | |
| | 4 | 21 | 9/16 | 254 | 23 | |
| | 5 | 22 1/16 | 9/16 | 76 | 23 | |
| | 6 | 23 9/16 | 9/16 | 355 | 51 | |
| | 7 | 25¾ | 9/16 | 172 | 52 | |
| | 8 | 28 7/16 | 9/16 | 180 | 24 | |
| | | 29⅞ | III | III | 150 psi | |
| 205-072-304-1 | 1 | 9 7/16 | 9/16 | 0 | 163 | Y - AN818-4D<br>MS20819-4D<br>X - AN818-4D<br>MS20819-4D |
| | 2 | 6 9/16 | 9/16 | 0 | 12 | |
| | | 10½ | I | I | | |

Table D-4. (Sheet 11 of 19)

| PART NUMBER | BEND NO. | DIMENSION "A" FROM "Y" END | BEND RADIUS | DIAL SETTING | BEND ANGLE | END FITTING AND NOTES |
|---|---|---|---|---|---|---|
|  |  | DIMENSION "B" | TYPE END "Y" | TYPE END "X" | PRESSURE TEST |  |
| 205-072-305-1 |  |  | 9/16 | 0 | 43 | Y - AN818-4D<br>MS20819-4D<br>X - AN818-4D<br>MS20819-4D |
|  | 1 | 11⅞ | 9/16 | 0 | 93 |  |
|  | 2 | 8 3/16 | 9/16 | 0 | 90 |  |
|  |  | 12.9 | I | I |  |  |
| 205-072-410-1 | 1 | 2⅝ | 3 | 0 | 116 | Y - AN818-16D<br>MS20819-16D<br>X - AN818-16D<br>MS20819-16D |
|  | 2 | 16¾ | 3 | 180 | 25 |  |
|  |  | 25⅛ | I | I | 150 psi |  |
| 205-072-424-1 | 1 | 1⅞ | 3 | 0 | 13 | Y - AN818-16D<br>MS20819-16D<br>X - AN818-16D<br>MS20819-16D |
|  | 2 | 11 9/16 | 3 | 97 | 23 |  |
|  | 3 | 17⅛ | 3 | 235 | 19 |  |
|  | 4 | 23⅜ | 3 | 212 | 97 |  |
|  | 5 | 31½ | 3 | 116 | 71 |  |
|  | 6 | 46¾ | 3 | 125 | 73 |  |
|  | 7 | 53¼ | 3 | 245 | 106 |  |
|  | 8 | 61½ | 3 | 155 | 5 |  |
|  |  | 63¼ | I | I | 150 psi |  |
| 205-075-134-1 | 1 | 2¾ | ¾ | 0 | 120 | Y - N/A<br>X - Scarf Dial Setting 90 |
|  |  | 5 | V | IV | N/A |  |
| 205-076-033-1 | 1 | 2 3/16 | 9/16 | 0 | 28 | Y - MS21921-4D<br>MS21922-4<br>X - MS21921-4D<br>MS21922-4 |
|  | 2 | 5 9/16 | 9/16 | 190 | 47 |  |
|  |  | 13 5/16 | IV | IV | 1500 psi |  |
| 205-076-131-1 | 1 | 1¼ | 1 | 0 | 117 | Y - MS21921-6D<br>MS21922-6<br>X - MS21921-6D<br>MS21922-6 |
|  | 2 | 11 7/16 | 1 | 194 | 26 |  |
|  | 3 | 18 13/16 | 1 | 267 | 103 |  |
|  | 4 | 22 13/16 | 1 | 90 | 14 |  |
|  |  | 29 9/16 | IV | IV | 1500 psi |  |
| 205-076-136-1 | 1 | 3⅛ | 9/16 | 0 | 86 | Y - MS21921-4D<br>MS21922-4<br>X - MS21921-4D<br>MS21922-4 |
|  | 2 | 7 | 9/16 | 96 | 43 |  |
|  | 3 | 14 | 9/16 | 186 | 83 |  |
|  | 4 | 20¾ | 9/16 | 226 | 12 |  |
|  | 5 | 25¼ | 9/16 | 321 | 85 |  |
|  |  | 27⅞ | IV | IV | N/A |  |
| 205-076-138-1 | 1 | 1⅛ | 1¼ | 0 | 86 | Y - MS21921-8D<br>MS21922-8<br>X - MS21921-8D<br>MS21922-8 |
|  | 2 | 5⅛ | 1¼ | 180 | 86 |  |
|  |  | 13 15/16 | IV | IV | 1500 psi |  |
| 205-076-140-1 | 1 | 1 | 15/16 | 0 | 96 | Y - MS21921-6D<br>MS21922-6<br>X - MS21921-6D<br>MS21922-6 |
|  | 2 | 4 9/16 | 15/16 | 183 | 94 |  |
|  | 3 | 17⅝ | 15/16 | 290 | 87 |  |
|  | 4 | 21 | 15/16 | 20 | 13 |  |
|  | 5 | 24¾ | 15/16 | 290 | 21 |  |
|  | 6 | 27½ | 15/16 | 200 | 90 |  |
|  |  | 30½ | IV | IV | 1500 psi |  |
| 205-076-141-1 | 1 | 3 13/16 | 1 | 0 | 33 | Y - MS21921-6<br>MS21922-6 |
|  | 2 | 6 3/16 | 1 | 180 | 33 |  |

**Table D-4. (Sheet 12 of 19)**

| TUBE ASSY PART NO. | FABRICATE FROM NSN | STOCK DIM. | | | END FITTING | | | | SYSTEM |
|---|---|---|---|---|---|---|---|---|---|
| | | O.D. | W.T. | L | NUT NSN | QTY | SLEEVE NSN | QTY | |
| 205-076-227-1 | 4710-00-278-8726 | ⅜ | .035 | 33.0 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-231-1 | 4710-00-279-0950 | ½ | .035 | 25.0 | 4730-00-555-0595 | 2 | 4730-00-580-2120 | 2 | Hyd. |
| 205-076-232-1 | 4710-00-278-8726 | ⅜ | .035 | 18.0 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-233-1 | 4710-00-278-6398 | ¼ | .035 | 43 | 4730-00-555-8203 | 1 | 4730-00-289-8619 | 1 | Drain |
| 205-076-235-1 | 4710-00-684-5074 | ⅜ | .035 | 34 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-236-1 | 4710-00-278-8726 | ⅜ | .035 | 12 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-237-1 | 4710-00-278-8726 | ⅜ | .035 | 12 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-238-1 | 4710-00-278-8726 | ⅜ | .035 | 22 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-240-1 | 4710-00-278-8726 | ⅜ | .035 | 40 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-241-1 | 4710-00-278-8726 | ⅜ | .035 | 31 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-242-1 | 4710-00-278-8726 | ⅜ | .035 | 33 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-244-1 | 4710-00-278-8726 | ⅜ | .035 | 25 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-245-1 | 4710-00-278-8726 | ⅜ | .035 | 25 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-246-1 | 4710-00-278-8726 | ⅜ | .035 | 23 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-247-1 | 4710-00-278-8726 | ⅜ | .035 | 23 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-248-1 | 4710-00-278-8726 | ⅜ | .035 | 33 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-249-1 | 4710-00-278-8726 | ⅜ | .035 | 33 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-250-1 | 4710-00-278-8726 | ⅜ | .035 | 27 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-251-1 | 4710-00-278-8726 | ⅜ | .035 | 21 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-252-1 | 4710-00-278-8726 | ⅜ | .035 | 21 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-253-1 | 4710-00-278-8726 | ⅜ | .035 | 27 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-254-1 | 4710-00-278-6398 | ¼ | .035 | 8 | 4730-00-555-8203 | 2 | 4730-00-289-8619 | 2 | Hyd. |
| 205-076-255-1 | 4710-00-278-6398 | ¼ | .035 | 8 | 4730-00-555-8203 | 2 | 4730-00-289-8619 | 2 | Hyd. |
| 205-076-257-1 | 4710-00-278-8726 | ⅜ | .035 | 17 | 4730-00-554-7397 | 2 | 4730-00-554-7398 | 2 | Hyd. |
| 205-076-258-1 | 4710-00-684-7029 | ½ | .035 | 22 | 4730-00-554-8018 | 2 | 4730-00-580-2120 | 2 | Hyd. |
| 205-076-259-1 | 4710-00-279-0950 | ½ | .035 | 36 | 4730-00-555-0595 | 2 | 4730-00-580-2120 | 2 | Hyd. |
| 99C29 | 4710-00-278-6398 | ¼ | .035 | 11 | 4730-00-287-0289 | 2 | 4730-00-302-8641 | 2 | Pneu. |
| 99C30 | 4710-00-278-6398 | ¼ | .035 | 17 | 4730-00-287-0289 | 2 | 4730-00-302-8641 | 2 | Pneu. |

Table D-4. (Sheet 13 of 19)

| PART NUMBER | BEND NO | DIMENSION "A" FROM "Y" END | BEND RADIUS | DIAL SETTING | BEND ANGLE | END FITTING AND NOTES |
|---|---|---|---|---|---|---|
| | | DIMENSION "B" | TYPE END "Y" | TYPE END "X" | PRESSURE TEST | |
| | 3 | 18 | 1 | 180 | 17 | X - MS21921-6<br>MS21922-6 |
| | 4 | 19⅝ | 1 | 0 | 17 | |
| | | 23⅝ | IV | IV | 3000 psi | |
| 205-076-156-1 | 1 | 1 | 9/16 | 0 | 63 | Y - MS21921-4D<br>MS21922-4<br>X - MS21921-4D<br>MS21922-4 |
| | 2 | 8 | 9/16 | 172 | 67 | |
| | 3 | 13¼ | 9/16 | 352 | 13 | |
| | 4 | 21 15/16 | 9/16 | 172 | 19 | |
| | | 36 7/16 | IV | IV | N/A | |
| 205-076-157-1 | 1 | 1¼ | 1 | 0 | 180 | Y - MS21921-6D<br>MS21922-6<br>X - MS21921-6D<br>MS21922-6 |
| | 2 | 7⅛ | 1 | 340 | 27 | |
| | 3 | 11⅝ | 1 | 240 | 92 | |
| | | 14 3/16 | IV | IV | 1500 psi | |
| 205-076-158-1 | 1 | 20¼ | .94 | 0 | 174 | Y - MS21921-6D<br>MS21922-6<br>X - MS21921-6D<br>MS21922-6 |
| | 2 | 13¾ | .94 | 238 | 90 | |
| | 3 | 10.00 | .94 | 202 | 64 | |
| | 4 | 8¼ | .94 | 180 | 64 | |
| | 5 | 3¹¹⁄₁₆ | .94 | 62 | 50 | |
| | 6 | 1¹⁵⁄₁₆ | .94 | 259 | 19 | |
| | | 21½ | IV | IV | 1500 psi | |
| 205-076-159-1 | 1 | 6 15/16 | 1¼ | 0 | 41 | Y - MS21921-8D<br>MS21922-8<br>X - MS21921-8D<br>MS21922-8 |
| | 2 | 14⅛ | 1¼ | 192 | 36 | |
| | 3 | 17⅜ | 1¼ | 144 | 33 | |
| | 4 | 21 5/16 | 1¼ | 219 | 86 | |
| | | 25 3/16 | IV | IV | 1500 psi | |
| 205-076-160-1 | 1 | 6¾ | 9/16 | 0 | 37 | Y - MS21921-4D<br>MS21922-4<br>X - MS21921-4D |
| | 2 | 20¼ | 9/16 | 265 | 35 | |
| | 3 | 23¼ | 9/16 | 175 | 77 | |
| | | 26¾ | IV | IV | 1500 psi | |
| 205-076-161-1 | 1 | 1 7/16 | 9/16 | 0 | 86 | Y - MS21921-4D<br>MS21922-4<br>X - MS21921-4D<br>MS21922-4 |
| | 2 | 6⅛ | 9/16 | 140 | 91 | |
| | | 10¼ | IV | IV | 1500 psi | |
| 205-076-200-1 | 1 | 1.88 | 9/16 | 0 | 141 | Y - MS21921D4<br>MS21922-4<br>X - MS21921D4<br>MS21922-4 |
| | 2 | 4 3/4 | 9/16 | 135 | 65 | |
| | | 6.75 | IV | IV | 3000 | |
| 205-076-201-1 | 1 | 1 5/16 | 1 | 0 | 20 | Y - MS21921-6D<br>MS21922-6<br>X - MS21921-6D<br>MS21922-6 |
| | 2 | 2¾ | 1 | 270 | 90 | |
| | 3 | 8½ | 1 | 200 | 20 | |
| | 4 | 9¾ | 1 | 100 | 90 | |
| | | 12⅞ | IV | IV | 1500 psi | |
| 205-076-202-1 | 1 | 2⅛ | 15/16 | 0 | 92 | Y - MS21922-6<br>MS21921-6D<br>X - MS21922-6<br>MS21921-6D |
| | 2 | 8 | 15/16 | 251 | 120 | |
| | | 11 7/16 | IV | IV | 1500 psi | |

**Table D-4. (Sheet 14 of 19)**

| PART NUMBER | BEND NO. | DIMENSION "A" FROM "Y" END | BEND RADIUS | DIAL SETTING | BEND ANGLE | END FITTING AND NOTES |
|---|---|---|---|---|---|---|
| | | DIMENSION "B" | TYPE END "Y" | TYPE END "X" | PRESSURE TEST | |
| 205-076-203-1 | 1 | 2⅜ | 1 | 0 | 10 | Y - MS21921-6D<br>MS21922-6<br>X - MS21921-6D<br>MS21922-6 |
| | 2 | 8 | 1 | 180 | 10 | |
| | | 9¾ | IV | IV | 1500 psi | |
| 205-076-204-1 | 1 | 2 13/16 | 1 | 0 | 75 | Y - MS21921-6D<br>MS21922-6<br>X - MS21921-6D<br>MS21922-6 |
| | 2 | 8 9/16 | 1 | 180 | 75 | |
| | 3 | 16 | 1 | 180 | 90 | |
| | 4 | 18 13/16 | 1 | 270 | 23 | |
| | | 21⅛ | IV | IV | 1500 psi | |
| 205-076-205-1 | 1 | 12 1/4 | 9/16 | 0 | 36 | **Y - MS21921D4<br>MS21922-4<br>X - MS21921D4<br>MS21922-4** |
| | 2 | 9 7/8 | 9/16 | 180 | 43 | |
| | 3 | 6 1/16 | 9/16 | 2 | 29 | |
| | 4 | 2 5/16 | 9/16 | 182 | 23 | |
| | | 13 5/8 | IV | IV | 3000 | |
| 205-076-206-1 | 1 | 2¼ | 9/16 | 0 | 89 | Y - MS21921-4D<br>MS21922-4<br>X - MS21921-4D<br>MS21922-4 |
| | 2 | 5 | 9/16 | 150 | 89 | |
| | 3 | 11¼ | 9/16 | 140 | 89 | |
| | 4 | 14 1/16 | 9/16 | 300 | 89 | |
| | | 16 3/16 | IV | IV | 1500 psi | |
| 205-076-207-1 | 1 | 2 7/16 | 9/16 | 0 | 50 | Y - MS21921-4<br>MS21922-4<br>X - MS21921-4<br>MS21922-4 |
| | 2 | 4 9/16 | 9/16 | 180 | 50 | |
| | 3 | 11½ | 9/16 | 95 | 12 | |
| | | 13⅝ | IV | IV | 3000 psi | |
| 205-076-208-1 | 1 | 2 7/16 | 9/16 | 0 | 81 | **Y - MS21921D4<br>MS21922-4<br>X - MS21921D4<br>MS21922-4** |
| | 2 | 5 9/16 | 9/16 | 275 | 36 | |
| | 3 | 19 | 9/16 | 195 | 41 | |
| | 4 | 31 1/4 | 9/16 | 295 | 89 | |
| | 5 | 35 | 9/16 | 75 | 82 | |
| | | 36 1/4 | IV | IV | 3000 | |
| 205-076-209-1 | 1 | 1 5/16 | 9/16 | 0 | 45 | Y - MS21921-4D<br>MS21922-4<br>X - MS21921-4D<br>MS21922-4 |
| | 2 | 13⅝ | 9/16 | 180 | 48 | |
| | 3 | 27 5/16 | 9/16 | 96 | 22 | |
| | 4 | 30 5/16 | 9/16 | 4 | 87 | |
| | | 32¾ | IV | IV | 1500 psi | |
| 205-076-210-1 | 1 | 1 | 9/16 | 0 | 41 | Y - MS21921-4<br>MS21922-4<br>X - MS21921-4<br>MS21922-4 |
| | 2 | 3 7/16 | 9/16 | 180 | 41 | |
| | 3 | 9⅛ | 9/16 | 180 | 20 | |
| | 4 | 9 15/16 | 9/16 | 0 | 25 | |
| | | 11 13/16 | IV | IV | 3000 psi | |
| 205-076-212-1 | 1 | 2 1/16 | 1 | 0 | 35 | Y - MS21921-6<br>MS21922-6<br>X - MS21921-6<br>MS21922-6 |
| | 2 | 4⅞ | 1 | 180 | 35 | |
| | 3 | 17 3/16 | 1 | 175 | 48 | |
| | 4 | 20 13/16 | 1 | 355 | 44 | |
| | | 23 13/16 | IV | IV | 3000 psi | |

**Table D-4. (Sheet 15 of 19)**

| PART NUMBER | BEND NO. | DIMENSION "A" FROM "Y" END | BEND RADIUS | DIAL SETTING | BEND ANGLE | END FITTING AND NOTES |
|---|---|---|---|---|---|---|
| | | DIMENSION "B" | TYPE END "Y" | TYPE END "X" | PRESSURE TEST | |
| 205-076-213-1 | 1 | 2½ | 1 | 0 | 23 | Y - MS21921-6D<br>MS21922-6<br>X - MS21921-6D<br>MS21922-6 |
| | 2 | 4 | 1 | 180 | 23 | |
| | 3 | 11½ | 1 | 100 | 67 | |
| | 4 | 14⅞ | 1 | 280 | 67 | |
| | 5 | 21 3/16 | 1 | 180 | 10 | |
| | 6 | 29½ | 1 | 353 | 8 | |
| | | 31¾ | IV | IV | 1500 psi | |
| 205-076-214-1 | 1 | 1⅝ | 15/16 | 0 | 91 | Y - MS21921-6D<br>MS21922-6<br>X - MS21921-6D<br>MS219221-6 |
| | 2 | 4¼ | 15/16 | 150 | 89 | |
| | 3 | 10 13/16 | 15/16 | 150 | 93 | |
| | 4 | 13 5/16 | 15/16 | 310 | 90 | |
| | | 15 13/16 | IV | IV | 1500 psi | |
| 205-076-215-1 | 1 | 1 3/4 | 15/16 | 0 | 90 | Y - MS21921D6<br>MS21922-6<br>X - MS21921D6<br>MS21922-6 |
| | 2 | 5 7/8 | 15/16 | 270 | 21 | |
| | 3 | 10 3/4 | 15/16 | 20 | 72 | |
| | 4 | 23 | 15/16 | 315 | 25 | |
| | | 26 1/2 | IV | IV | 3000 | |
| 205-076-216-1 | 1 | 2 | 1 | 0 | 29 | Y - MS21921-6D<br>MS21922-6<br>X - MS21921-6D<br>MS21922-6 |
| | 2 | 11⅝ | 1 | 320 | 45 | |
| | 3 | 13⅜ | 1 | 245 | 95 | |
| | | 17⅝ | IV | IV | 1500 psi | |
| 205-076-217-1 | 1 | 2 7/16 | 1 | 0 | 8 | Y - MS21921-6D<br>MS21922-6<br>X - MS21921-6D<br>MS21922-6 |
| | 2 | 7 13/16 | 1 | 200 | 95 | |
| | 3 | 13⅝ | 1 | 208 | 90 | |
| | | 22 | IV | IV | 1500 psi | |
| 205-076-221-1 | 1 | 1 1/8 | 9/16 | 0 | 90 | Y - MS21921D4<br>MS21922-4<br>X - None |
| | 2 | 4 1/2 | 9/16 | 90 | 37 | |
| | 3 | 10 1/8 | 9/16 | 15 | 84 | |
| | 4 | 16 1/2 | 9/16 | 85 | 65 | |
| | 5 | 28 3/8 | 9/16 | 90 | 12 | |
| | 6 | 30 3/4 | 9/16 | 180 | 12 | |
| | 7 | 40 3/4 | 9/16 | 85 | 55 | |
| | 8 | 44 3/8 | 9/16 | 270 | 14 | |
| | 9 | 45 1/2 | 9/16 | 270 | 64 | |
| | | 46 7/8 | IV | V | None | |
| 205-076-223-1 | 1 | 2⅜ | 9/16 | 0 | 90 | Y - MS21921-4D<br>MS21922-4 |
| | 2 | 7 | 9/16 | 0 | 90 | |
| | | 9 | IV | IV | 1500 psi | X - MS21921-4D<br>MS21922-4 |
| 205-076-227-1 | 1 | 1 3/4 | 15/16 | 0 | 90 | Y - MS21921D6<br>MS21922-6<br>Y - MS21921D6<br>MS21922-6 |
| | 2 | 6 1/4 | 15/16 | 265 | 135 | |
| | 3 | 9 1/2 | 15/16 | 180 | 35 | |
| | 4 | 14 1/2 | 15/16 | 270 | 10 | |
| | 5 | 17 1/2 | 15/16 | 180 | 85 | |
| | 6 | 20 7/8 | 15/16 | 265 | 85 | |
| | 7 | 27 1/4 | 15/16 | 225 | 85 | |
| | | 28 1/4 | IV | IV | 3000 | |

Table D-4. (Sheet 16 of 19)

| PART NUMBER | BEND NO | DIMENSION "A" FROM "Y" END | BEND RADIUS | DIAL SETTING | BEND ANGLE | END FITTING AND NOTES |
|---|---|---|---|---|---|---|
| |  | DIMENSION "B" | TYPE END "Y" | TYPE END "X" | PRESSURE TEST | |
| 205-076-231-1 | 1 | 17 1/2 | 1 1/2 | 0 | 33 | Y - MS21921D8<br>MS21922-8<br>X - MS21921D8<br>MS21922-8 |
| | 2 | 11 1/2 | 1 1/2 | 90 | 90 | |
| | 3 | 6 | 1 1/2 | 145 | 90 | |
| | 4 | 3 | 1 1/2 | 45 | 33 | |
| | | 21 1/2 | IV | IV | 3000 | |
| 205-076-232-1 | 1 | 13 3/4 | 15/16 | 0 | 128 | Y - MS21921D6<br>MS21922-6<br>X - MS21921D6<br>MS21922-6 |
| | 2 | 8 1/2 | 15/16 | 280 | 72 | |
| | 3 | 5 5/8 | 15/16 | 38 | 47 | |
| | 4 | 3 1/4 | 15/16 | 270 | 89 | |
| | | | IV | IV | 3000 | |
| 205-076-233-1 | 1 | 2 3/16 | 9/16 | 0 | 43 | Y - MS21921-4D<br>MS21922-4<br>X - Scarf Dial<br>Setting 151 |
| | 2 | 5 11/16 | 9/16 | 180 | 43 | |
| | 3 | 9⅝ | 9/16 | 183 | 37 | |
| | 4 | 15⅛ | 9/16 | 3 | 36 | |
| | 5 | 24¾ | 9/16 | 241 | 12 | |
| | 6 | 27¼ | 9/16 | 61 | 13 | |
| | 7 | 36 13/16 | 9/16 | 61 | 61 | |
| | 8 | 38½ | 9/16 | 241 | 63 | |
| | | 40⅝ | IV | V | N/A | |
| 205-076-235-1 | 1 | 29¾ | 1.0 | 0 | 26 | Y - MS21919-6D<br>MS21922-6<br>X - MS21919-6D<br>MS21922-6 |
| | 2 | 28⅛ | 1.0 | 179 | 24 | |
| | 3 | 29⅝ | 1.0 | 225 | 59 | |
| | 4 | 19 | 1.0 | 321 | 37 | |
| | 5 | 17⅛ | 1.0 | 76 | 59 | |
| | 6 | 11⅜ | 1.0 | 151 | 31 | |
| | 7 | 9 7/16 | 1.0 | 332 | 35 | |
| | 8 | 3 15/16 | 1.0 | 359°30′ | 23°30′ | |
| | 9 | 2 3/16 | 1.0 | 177°30′ | 22 | |
| | | 34.0 | I | | 3000 psi | |
| 205-076-236-1 | 1 | 1 | 15/16 | 0 | 15 | Y - MS21921-6D<br>MS21922-6<br>X - MS21921-6D<br>MS21922-6 |
| | 2 | 4¼ | 15/16 | 270 | 90 | |
| | 3 | 7¼ | 15/16 | 355 | 25 | |
| | | 9⅛ | IV | IV | 1500 psi | |
| 205-076-237-1 | 1 | 3 1/16 | 1 | 0 | 37 | Y - MS21921-6D<br>MS21922-6<br>X - MS21921-6D<br>MS21922-6 |
| | 2 | 7½ | 1 | 12 | 54 | |
| | | 9⅝ | IV | IV | 1500 psi | |
| 205-076-238-1 | 1 | 5 3/16 | 1 | 0 | 90 | Y - MS21921-6D<br>MS21922-6<br>X - MS21921-6D<br>MS21922-6 |
| | 2 | 10⅞ | 1 | 7 | 90 | |
| | 3 | 17¾ | 1 | 240 | 8 | |
| | | 19⅞ | IV | IV | 1500 psi | |
| 205-076-240-1 | 1 | 1⅛ | 1 | 0 | 5 | Y - MS21921-6D<br>MS21922-6<br>X - MS21921-6D<br>MS21922-6 |
| | 2 | 9⅛ | 1 | 270 | 88 | |
| | 3 | 13 7/16 | 1 | 358 | 52 | |
| | 4 | 17 | 1 | 178 | 52 | |
| | 5 | 19½ | 1 | 146 | 90 | |
| | 6 | 22¼ | 1 | 236 | 35 | |
| | 7 | 25 11/16 | 1 | 322 | 86 | |
| | 8 | 33¼ | 1 | 218 | 30 | |
| | 9 | 34⅞ | 1 | 38 | 30 | |
| | | 37⅛ | IV | IV | 1500 psi | |

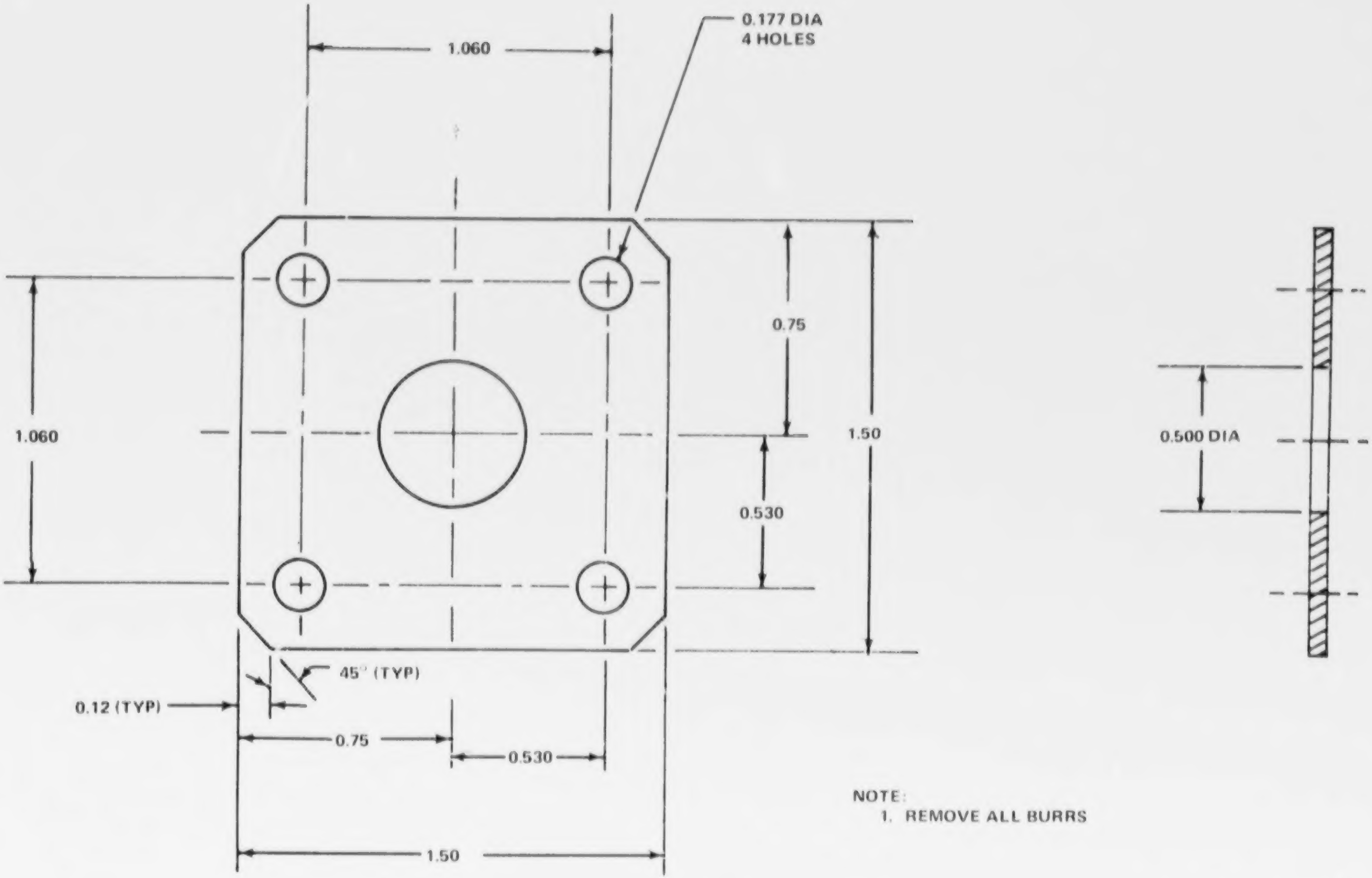
Table D-4. (Sheet 17 of 19)

| PART NUMBER | BEND NO. | DIMENSION "A" FROM "Y" END<br>DIMENSION "B" | BEND RADIUS<br>TYPE END "Y" | DIAL SETTING<br>TYPE END "X" | BEND ANGLE<br>PRESSURE TEST | END FITTING AND NOTES |
|---|---|---|---|---|---|---|
| 205-076-241-1 | 1 | 5¼ | 1 | 0 | 35 | Y - MS21921-6D |
| | 2 | 7⅝ | 1 | 180 | 35 | MS21922-6 |
| | 3 | 15 3/16 | 1 | 100 | 85 | X - MS21921-6D |
| | 4 | 25½ | 1 | 10 | 10 | MS21922-6 |
| | | 29 | IV | IV | 1500 psi | |
| 205-076-242-1 | 1 | 1 | 1 | 0 | 55 | Y - MS21921-6D |
| | 2 | 3⅛ | 1 | 180 | 55 | MS21922-6 |
| | 3 | 5¾ | 1 | 90 | 40 | X - MS21921-6D |
| | 4 | 13 15/16 | 1 | 180 | 92 | MS21922-6 |
| | 5 | 20½ | 1 | 310 | 40 | |
| | 6 | 27½ | 1 | 53 | 95 | |
| | | 30½ | IV | IV | 1500 psi | |
| 205-076-244-1 | 1 | 2¼ | 1 | 0 | 57 | Y - MS21921-6D |
| | 2 | 6 9/16 | 1 | 180 | 60 | MS21922-6 |
| | 3 | 17 11/16 | 1 | 180 | 53 | X - MS21921-6D |
| | 4 | 20⅝ | 1 | 0 | 53 | MS21922-6 |
| | | 22⅝ | IV | IV | 1500 psi | |
| 205-076-245-1 | 1 | 2 | 1 | 0 | 60 | Y - MS21921-6D |
| | 2 | 5¾ | 1 | 180 | 60 | MS21922-6 |
| | 3 | 17⅛ | 1 | 180 | 50 | X - MS21921-6D |
| | 4 | 20⅝ | 1 | 0 | 55 | MS21922-6 |
| | | 22 11/16 | IV | IV | 1500 psi | |
| 205-076-246-1 | 1 | 1 1/16 | 1 | 0 | 83 | Y - MS21921-6D |
| | 2 | 3 7/16 | 1 | 180 | 80 | MS21922-6 |
| | 3 | 15¾ | 1 | 130 | 74 | X - MS21921-6D |
| | 4 | 18⅝ | 1 | 310 | 68 | MS21922-6 |
| | | 20 15/16 | IV | IV | 1500 psi | |
| 205-076-247-1 | 1 | 1⅞ | 1 | 0 | 58 | Y - MS21921-6D |
| | 2 | 3⅜ | 1 | 180 | 48 | MS21922-6 |
| | 3 | 13⅛ | 1 | 110 | 88 | X - MS21921-6D |
| | 4 | 16⅝ | 1 | 290 | 88 | MS21922-6 |
| | | 20 9/16 | IV | IV | 1500 psi | |
| 205-076-248-1 | 1 | 2¼ | 1 | 0 | 30 | Y - MS21921-6D |
| | 2 | 12½ | 1 | 190 | 30 | MS21922-6 |
| | 3 | 21⅜ | 1 | 165 | 60 | X - MS21921-6D |
| | 4 | 27⅛ | 1 | 345 | 60 | |
| | | 30⅛ | IV | IV | 1500 psi | |
| 205-076-249-1 | 1 | 1½ | 1 | 0 | 60 | Y - MS21921-6D |
| | 2 | 8 | 1 | 180 | 60 | MS21922-6 |
| | 3 | 17½ | 1 | 180 | 30 | X - MS21921-6D |
| | 4 | 28⅝ | 1 | 0 | 30 | MS21922-6 |
| | | 30⅝ | IV | IV | 1500 psi | |
| 205-076-250-1 | 1 | 1 15/16 | 1 | 0 | 69 | Y - MS21921-6D |
| | 2 | 4½ | 1 | 105 | 45 | MS21922-6 |
| | 3 | 9⅜ | 1 | 141 | 70 | X - MS21921-6D |
| | 4 | 12 3/16 | 1 | 330 | 70 | MS21922-6 |
| | 5 | 20½ | 1 | 321 | 34 | |
| | 6 | 22 9/16 | 1 | 140 | 34 | |
| | | 24⅝ | IV | IV | 1500 psi | |

Table D-4. (Sheet 18 of 19)

| PART NUMBER | BEND NO | DIMENSION "A" FROM "Y" END DIMENSION "B" | BEND RADIUS TYPE END "Y" | DIAL SETTING TYPE END "X" | BEND ANGLE PRESSURE TEST | END FITTING AND NOTES |
|---|---|---|---|---|---|---|
| 205-076-251-1 | 1 | 1¼ | 1 | 0 | 27 | Y - MS21921-6D<br>MS21922-6<br>X - MS21921-6D<br>MS21922-6 |
| | 2 | 2⅞ | 1 | 183 | 30 | |
| | 3 | 10⅜ | 1 | 156 | 74 | |
| | 4 | 14⅜ | 1 | 340 | 74 | |
| | | 18¼ | IV | IV | 1500 psi | |
| 205-076-252-1 | 1 | 3¼ | 1 | 0 | 75 | Y - MS21921-6D<br>MS21922-6<br>X - MS21921-6D<br>MS21922-6 |
| | 2 | 7 3/16 | 1 | 173 | 79 | |
| | 3 | 15 | 1 | 193 | 27 | |
| | 4 | 16 9/16 | 1 | 14 | 27 | |
| | | 18½ | IV | IV | 1500 psi | |
| 205-076-253-1 | 1 | 2 | 1 | 0 | 62 | Y - MS21921-6D<br>MS21922-6<br>X - MS21921-6D<br>MS21922-6 |
| | 2 | 4⅜ | 1 | 250 | 42 | |
| | 3 | 9¼ | 1 | 222 | 67 | |
| | 4 | 12 | 1 | 32 | 68 | |
| | 5 | 19⅞ | 1 | 44 | 35 | |
| | 6 | 21⅞ | 1 | 215 | 32 | |
| | | 24 3/16 | IV | IV | 1500 psi | |
| 205-076-254-1 | 1 | 3 5/16 | ¾ | 0 | 65 | Y - MS21921-4D<br>MS21922-4<br>X - MS21921-4D<br>MS21922-4 |
| | | 6 | IV | IV | 1500 psi | |
| 205-076-255-1 | 1 | 1⅞ | 9/16 | 0 | 55 | Y - MS21921-4D<br>MS21922-4<br>X - MS21921-4D<br>MS21922-4 |
| | | 5¾ | IV | IV | 1500 psi | |
| 205-076-257-1 | 1 | 1⅜ | 1 | 0 | 128 | Y - MS21921-6D<br>MS21922-6<br>X - MS21921-6D<br>MS21922-6 |
| | 2 | 6 | 1 | 240 | 65 | |
| | 3 | 9⅜ | 1 | 300 | 8 | |
| | | 14⅞ | IV | IV | 1500 psi | |
| 205-076-258-1 | 1 | 1⅞ | 1¼ | 0 | 90 | Y - MS21921-8<br>MS21922-8<br>X - MS21921-8<br>MS21922-8 |
| | 2 | 13½ | 1¼ | 255 | 23 | |
| | | 19 15/16 | IV | IV | 3000 psi | |
| 205-076-259-1 | 1 | 1½ | 1¼ | 0 | 93 | Y - MS21921-8D<br>MS21922-8<br>X - MS21921-8D<br>MS21922-8 |
| | 2 | 14 5/16 | 1¼ | 272 | 19 | |
| | 3 | 22¾ | 1¼ | 92 | 10 | |
| | 4 | 26 | 1¼ | 206 | 58 | |
| | 5 | 31 | 1¼ | 116 | 10 | |
| | | 33½ | IV | IV | 1500 psi | |
| 99C29 | 1 | 2 7/16 | 9/16 | 0 | 60 | Y - AN818-4D<br>MS20819-4D<br>X - AN818-4D<br>MS20819-4D |
| | 2 | 4⅞ | 9/16 | 188 | 63 | |
| | | 8⅜ | III | III | 150 psi | |
| 99C30 | 1 | 15/16 | 1 | 0 | 90 | Y - AN818-4D<br>MS20819-4D<br>X - AN818-4D<br>MS20819-4D |
| | 2 | 3½ | 1 | 270 | 26 | |
| | 3 | 6 13/16 | 1 | 225 | 16 | |
| | 4 | 13 1/16 | 1 | 45 | 16 | |
| | | 15 | III | III | 150 psi | |

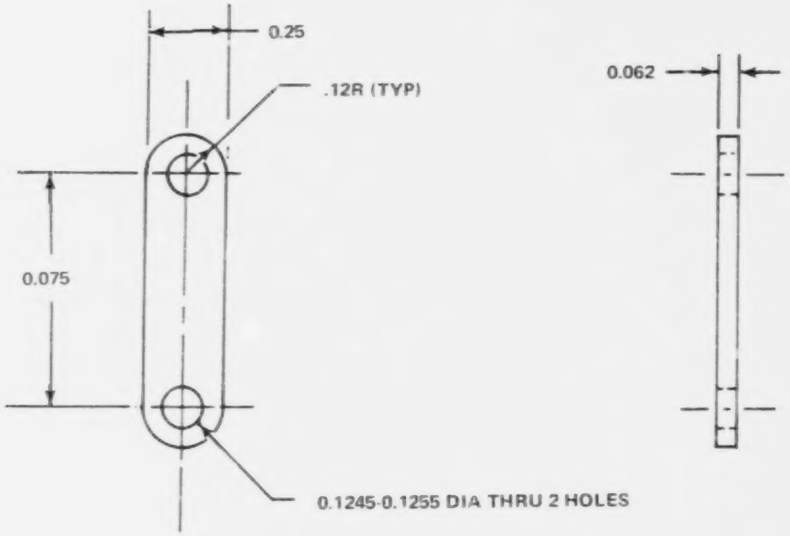
Table D-4. (Sheet 19 of 19)



0.177 DIA
4 HOLES
1.060
1.060
0.75
0.530
1.50
0.500 DIA
45° (TYP)
0.12 (TYP)
0.75
0.530
1.50

NOTE:
1. REMOVE ALL BURRS

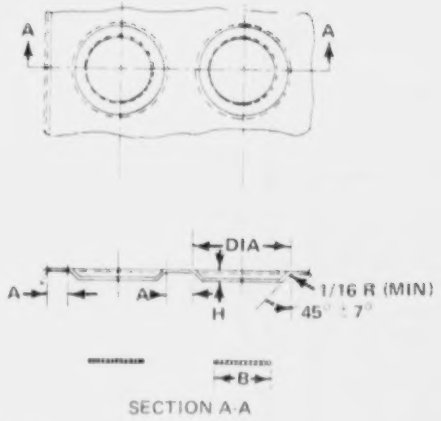
**Figure D-43.** Part Number 28D00 PLATE, RETAINER
Fabricate from: NSN 9535-00-640-2311
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.063 Inch Thick


0.25
.12R (TYP)
0.062
0.075
0.1245-0.1255 DIA THRU 2 HOLES

NOTE:
1. PASSIVATED FINISH

| **Figure D-44.** | Part Number | 49C16 LINK, VALVE ASSEMBLY |
|---|---|---|
| | Fabricate from: | NSN 9515-00-234-7953 |
| | Material: | Metal Sheet - Steel, Corrosion Resistant Cold Roll,<br>Federal Sepcification MIL-S-5059A, 0.063 Inch Thick |

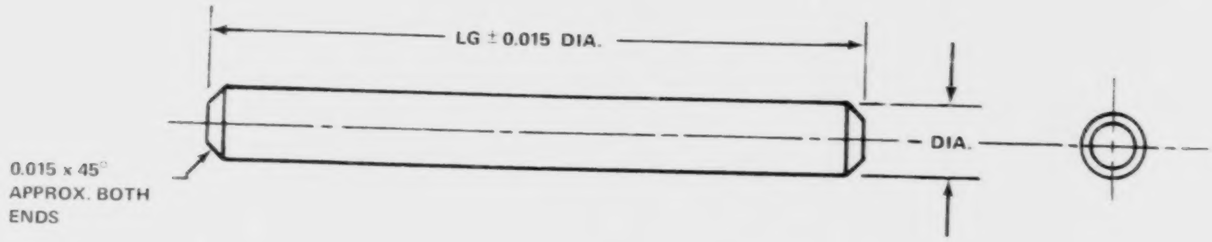
| DASH NO. | DIA. OF HOLE D | BLANK DIA. B | AREA OF BLANK SQ. IN. | H ±1/32 | A MIN |
|---|---|---|---|---|---|
| 4 | 1 | .6895 | .37 | 1/8 | 5/16 |
| 5 | 1-1/4 | .9375 | .69 | 1/8 | 5/16 |
| 6 | 1-1/2 | 1.000 | .78 | 3/16 | 11/32 |
| 7 | 1-3/4 | 1.250 | 1.23 | 3/16 | 11/32 |
| 8 | 2 | 1.500 | 1.77 | 3/16 | 11/32 |
| 9 | 2-1/4 | 1.750 | 2.41 | 3/16 | 11/32 |
| 10 | 2-1/2 | 2.000 | 3.14 | 3/16 | 11/32 |
| 11 | 2-3/4 | 2.250 | 3.98 | 3/16 | 11/32 |
| 12 | 3 | 2.500 | 4.91 | 3/16 | 11/32 |
| 13 | 3-1/4 | 2.625 | 5.41 | 1/4 | 3/8 |
| 14 | 3-1/2 | 2.875 | 6.49 | 1/4 | 3/8 |
| 15 | 3-3/4 | 3.125 | 7.67 | 1/4 | 3/8 |
| 16 | 4 | 3.375 | 8.94 | 1/4 | 3/8 |
| 17 | 4-1/4 | 3.625 | 10.32 | 1/4 | 3/8 |
| 18 | 4-1/2 | 3.875 | 11.79 | 1/4 | 3/8 |
| 19 | 4-3/4 | 4.125 | 13.36 | 1/4 | 3/8 |
| 20 | 5 | 4.375 | 15.00 | 1/4 | 3/8 |
| CONTINUE IN 1/4 INCH INCREMENTS | | | | | |



NOTES:

1. THE MINIMUM HOLE SHALL BE 1" IN DIAMETER (D).
   COVE: DASH NUMBER INDICATED DIAMETER OF HOLE (D) IN 1/4 INCH INCREMENTS
   EXAMPLE: 50H1-8 = HOLE - CIRCULAR LIGHTENING 45° FLANGE, 2" DIAMETER

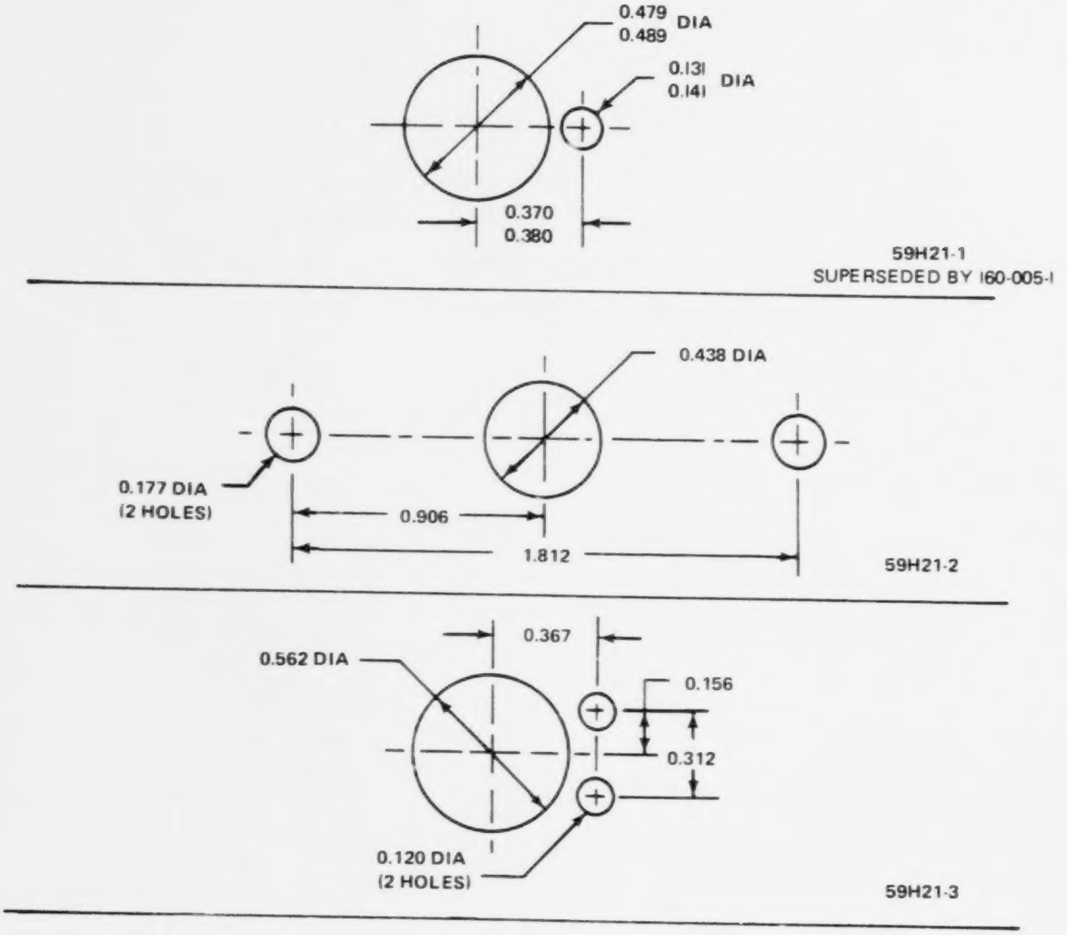
Figure D-45. Part Number 50H1 Lightening Hole Pattern



| PART NUMBER | FABRICATE FROM NSN | DIA. | LENGTH |
|---|---|---|---|
| MS20253-2-225 | 5340-00-068-4378 | 0.089 | 2.250 |
| MS20253-2-275 | 5340-00-573-0780 | 0.089 | 2.750 |
| MS20253-2-600 | 5340-00-573-0780 | 0.089 | 6.000 |
| MS20253-2-2450 | 5340-00-068-4378 | 0.089 | 24.50 |
| MS20253-2-7950 | 9505-00-596-1662 | 0.089 | 79.500 |
| MS20253-2-10350 | 9505-00-596-1662 | 0.089 | 103.500 |
| MS20253P2-275 | 5340-00-043-3723 | 0.089 | 2.750 |
| MS20253P2-387 | 5340-00-043-3723 | 0.089 | 3.870 |
| MS20253P2-2372 | 5340-00-043-3723 | 0.089 | 23.720 |

PIN, Straight Headless

Figure D-46.


0.479
0.489 DIA
0.131
0.141 DIA
0.370
0.380
59H21-1
SUPERSEDED BY 160-005-1
0.438 DIA
0.177 DIA
(2 HOLES)
0.906
1.812
59H21-2
0.367
0.562 DIA
0.156
0.312
0.120 DIA
(2 HOLES)
59H21-3

DIMENSIONS IN INCHES: UNLESS OTHERWISE SPECIFIED
TOLERANCES: THREE
PLACE DECIMALS ± .005

**Figure D-47.** Part Number 59H21 HOLE PATTERNS

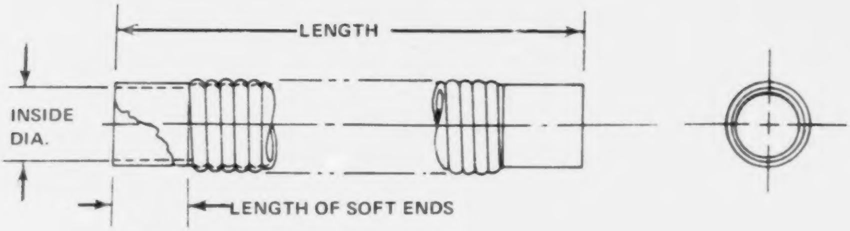
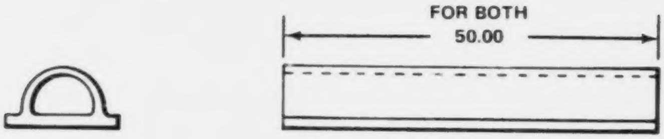


Figure D-48.

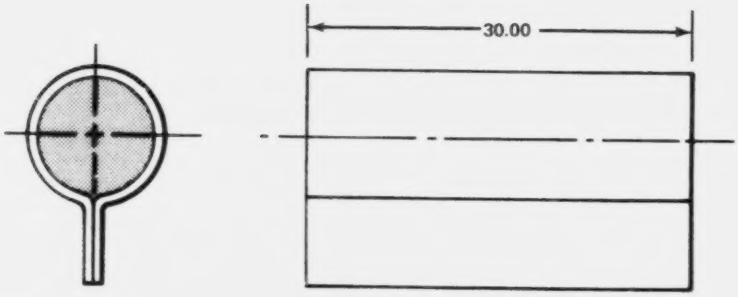
| HOSE PART NUMBER | FABRICATE FROM NSN | ID. | LG. | SOFT END LG. |
|---|---|---|---|---|
| 70-001B8F18Z3 | 4720-00-707-6900 | 2.000 IN. | 9.000 IN. | 1.500 IN. |
| 70-001B8F59Z3 | 4720-00-707-6900 | 2.000 IN. | 29.500 IN. | 1.500 IN. |
| 70-001B10F66Z2 | 4720-00-736-0985 | 2.500 IN. | 2.900 IN. | 1.000 IN. |
| 70-001B12F13Z3 | 4720-00-736-0986 | 3.000 IN. | 6.500 IN. | 1.500 IN. |
| 70-001B12F22Z2 | 4720-00-736-0986 | 3.000 IN. | 11.99 IN. | 1.000 IN. |
| 70-001B12F27Z2 | 4720-00-736-0986 | 3.000 IN. | 13.500 IN. | 1.000 IN. |
| 70-001B12F52Z3 | 4720-00-736-0986 | 3.000 IN. | 26.000 IN. | 1.500 IN. |
| 70-001B20F12Z3 | 4720-00-736-0986 | 5.000 IN. | 6.000 IN. | 1.500 IN. |
| 70-004A10F23Z2 | 4720-00-736-0985 | 2.500 IN. | 11.500 IN. | 1.000 IN. |
| 70-004A10F24Z2 | 4720-00-736-0985 | 2.500 IN. | 12.00 IN. | 1.000 IN. |
| 70-004A10F25Z3 | 4720-00-736-0985 | 2.500 IN. | 12.500 IN. | 1.500 IN. |
| 70-004A12F27Z2 | 4720-00-736-0986 | 3.000 IN. | 13.500 IN. | 1.000 IN. |

HOSE, Air Duct


FOR BOTH
50.00

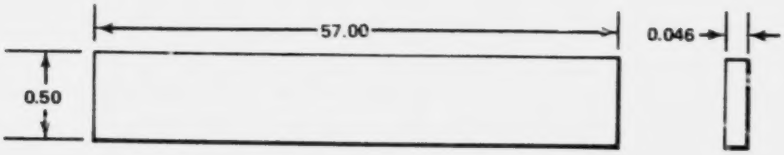
SEAL, PART NUMBERS 205-031-669-151
205-031-669-152
FABRICATE FROM NSN 9390-00-456-2095

Figure D-49.



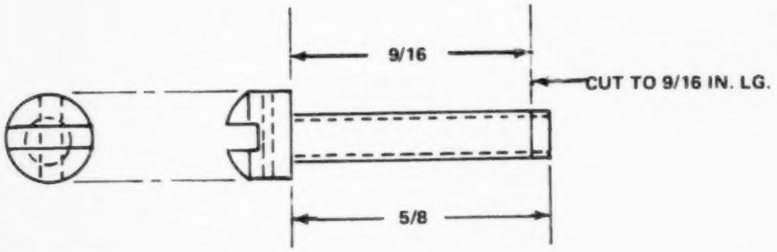
SEAL, PART NUMBER 205-060-907-35
FABRICATE FROM NSN 9390-00-851-9178

Figure D-50.


57.00
0.046
0.50

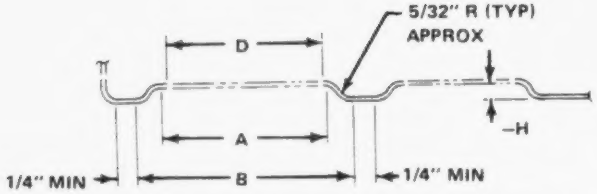
GASKET, PART NUMBER 205-060-907-37
FABRICATE FROM NSN 5330-00-938-1719

Figure D-51.


9/16
CUT TO 9/16 IN. LG.
5/8

NO. 4-40 x 9/16" DRILLED FILLISTER HEAD
MACHINE SCREW WITH SLOTTED HEAD.

| **Figure D-52.** | Part Number | BYRF572 SCREW, MACHINE |
|---|---|---|
| | Fabricate from: | NSN 5305-00-579-4554 |

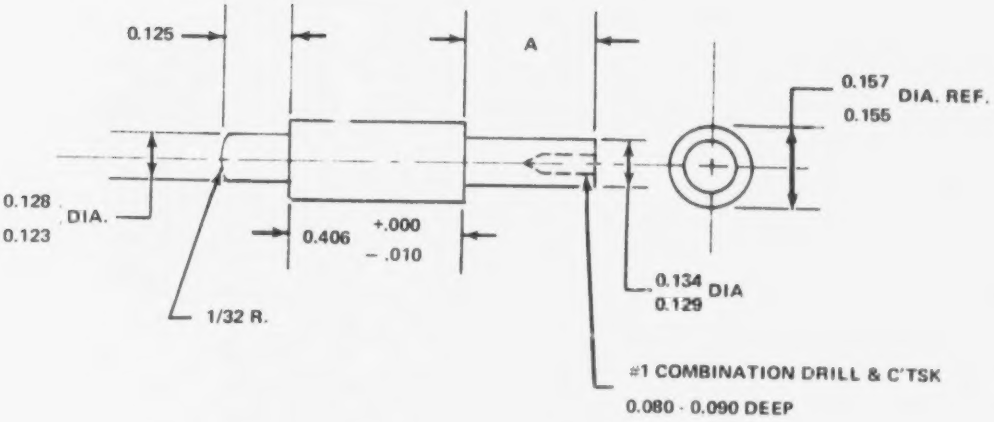


| DASH NO. | D | H | A | B APPROX. | MATERIAL THICKNESS LIMITATIONS |
|---|---|---|---|---|---|
| -4 | 3/4 | 1/8 | 7/8 | 1-11/32 | 0.020 MAX |
| -5 | 1 | 1/8 | 1-1/8 | 1-19/32 | 0.025 MAX |
| -6 | 1-1/8 | 3/16 | 1-1/4 | 1-25/32 | 0.032 MAX |
| -7 | 1-3/8 | 3/16 | 1-1/2 | 2-1/32 | 0.040 MAX |
| -8 | 1-5/8 | 3/16 | 1-3/4 | 2-9/32 | 0.051 MAX |
| -9 | 1-7/8 | 3/16 | 2 | 2-17/32 | |
| -10 | 2-1/8 | 3/16 | 2-1/4 | 2-25/32 | |
| -11 | 2-3/8 | 3/16 | 2-1/2 | 3-1/32 | |
| -12 | 2-5/8 | 3/16 | 2-3/4 | 3-9/32 | |
| -13 | 2-3/4 | 1/4 | 2-7/8 | 3-7/16 | |
| -14 | 3 | 1/4 | 3-1/8 | 3-11/16 | |
| -15 | 3-1/4 | 1/4 | 3-3/8 | 3-15/16 | |
| -16 | 3-1/2 | 1/4 | 3-5/8 | 4-3/16 | |
| -17 | 3-3/4 | 1/4 | 3-7/8 | 4-7/16 | |
| -18 | 4 | 1/4 | 4-1/8 | 4-11/16 | |
| -19 | 4-1/4 | 1/4 | 4-3/8 | 4-15/16 | |
| -20 | 4-1/2 | 1/4 | 4-5/8 | 5-3/16 | |
| CONTINUE IN 1/4 INCH INCREMENTS | | | | | |
| -23 THRU -30 | | | | | 0.020 MIN<br>0.051 MAX |

NOTE:

MAY BE USED AS AN ALTERNATE FOR BELL STANDARD 50H1 LIGHTENING HOLES DASH NUMBER FOR DASH NUMBER WITHIN MATERIAL LIMITS SHOWN. (MATERIAL SHOULD BE IN "0" INITIAL CONDITION.)

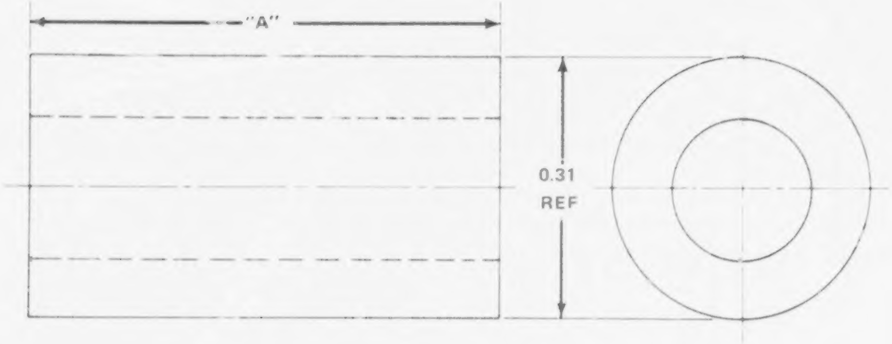
**Figure D-53.** Part Number 70-017 HOLE PATTERNS


0.125
A
0.157
0.155
DIA. REF.
0.128
0.123
DIA.
0.406
+.000
− .010
1/32 R.
0.134
0.129
DIA
#1 COMBINATION DRILL & C'TSK
0.080 - 0.090 DEEP

| PART NO. | A |
|---|---|
| -1 | 0.344 |
| -2 | 0.218 |

Figure D-54.

| | |
|---|---|
| Part Number | SP 401-1 PIN, Shoulder<br>SP 401-2 |
| Fabricate from: | NSN 9530-00-167-1817 |
| Material: | Wire Non-Electric Nickel Annealed Cold,<br>Federal Specification MIL-N-6710, Cond A, 0.250 Inch Dia. |



| PART NUMBER | "A" | NEXT ASSY | APPLICATION QTY. REQ'D |  |  |
|---|---|---|---|---|---|
|  |  |  | USED ON | NEXT ASSY | USED ON |
| B79C65 | 0.61 | A71C09 | A71C09 | 1 | 1 |

MATERIAL: 5/16 O.D. x .058 WALL
THICKNESS TYPE
6061 AL. ALY. TUBING
PER WW-T-789

NOTE:
1. REMOVE ALL BURRS

**Figure D-55.** Part Number B79C65 SPACER
Fabricate from: NSN 5340-00-727-1891
Material: Spacer, Sleeve Aluminum Alloy. 0.194 inch ID. 0.322 inch O.D. 20 inch long.

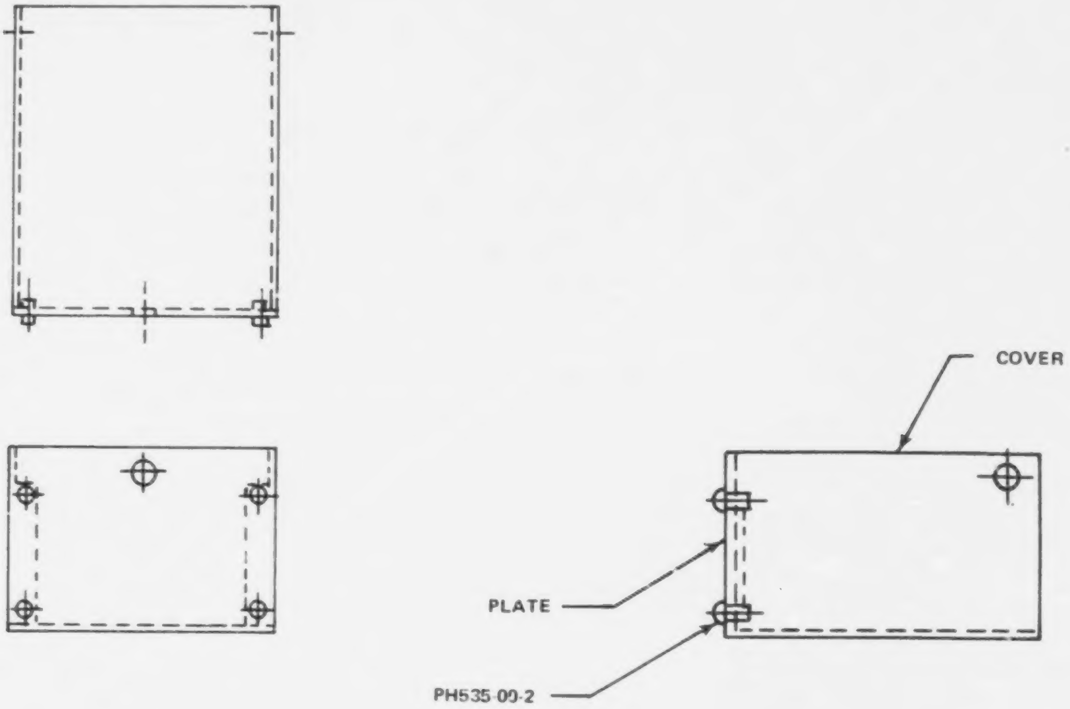
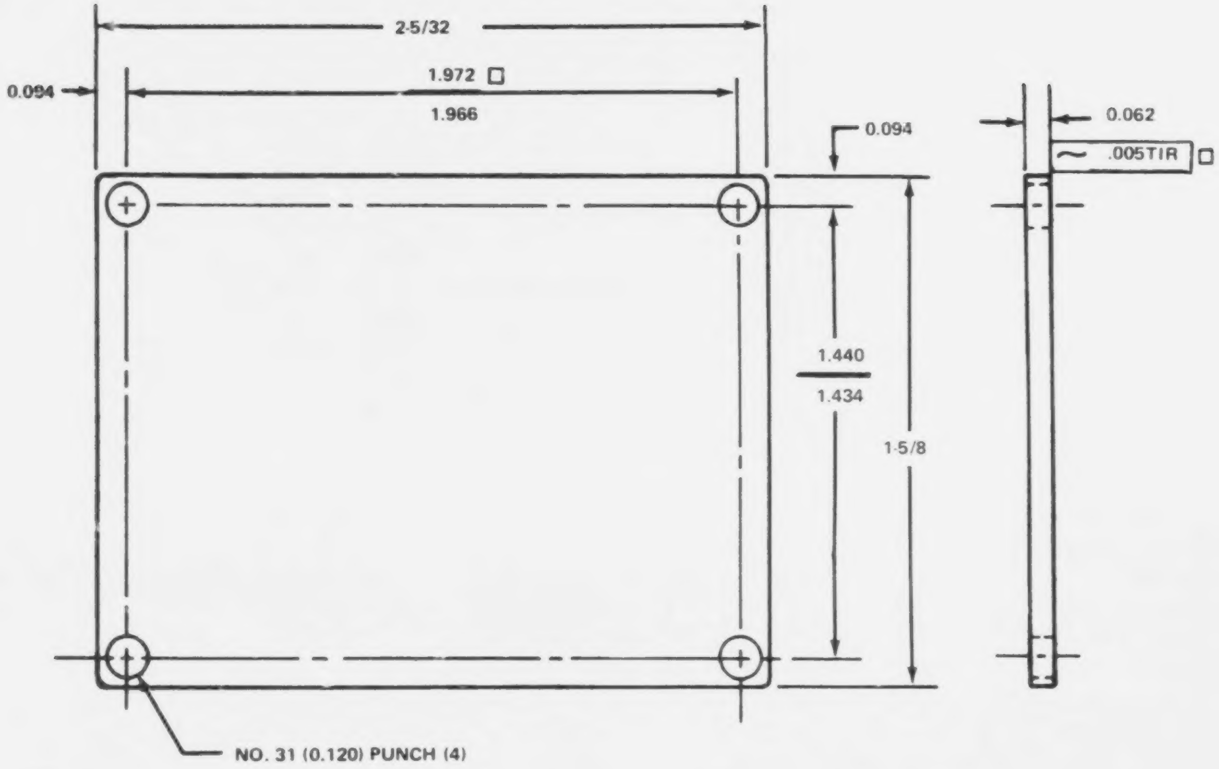

COVER
PLATE
PH535-00-2

**Figure D-56.** Part Number: B56C21 COVER ASSEMBLY

Fabricate from: NSN 9535-00-167-2280
NSN 5305-00-253-5604

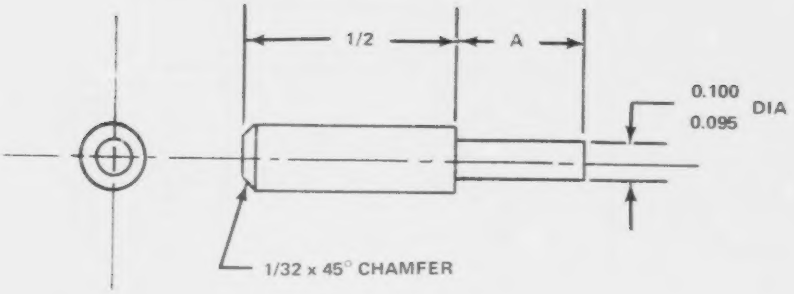
Material: 2024 AL ALY, Federal Specification QQ-A-250/5, 0.040 Inch Thick.


2-5/32
1.972 ☐
1.966
0.094
0.094
0.062
.005TIR ☐
1.440
1.434
1-5/8
NO. 31 (0.120) PUNCH (4)

NOTES:
1. MUST BE FREE OF BURRS
2. ALODIZE MIL-C-5541 (1)

**Figure D-57.**

| | |
|---|---|
| Part Number | NYLC3, COVER PLATE, Access |
| Fabricate from: | NSN 9535-00-232-0378 |
| Material: | 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.063 Inch Thick |


1/2
A
0.100
0.095
DIA
1/32 x 45° CHAMFER

| PART NO. | A |
|---|---|
| SP 469-1 | 5/16 |
| SP 469-2 | 5/8 |

**Figure D-58.** Part Number SP 469-1 POST, Micro Switch
Fabricate from: –NSN 9530-00-167-1817
Material: Wire, Nonelectric Nickle Annealed, Federal Specification M16-N-6710, Cond A, 0.250 Inch Dia.

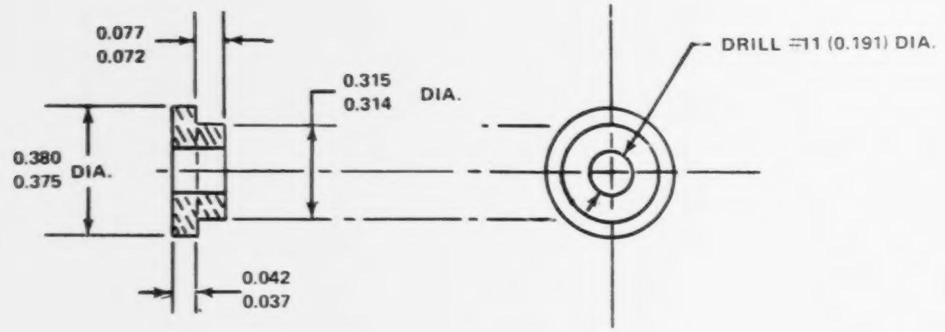
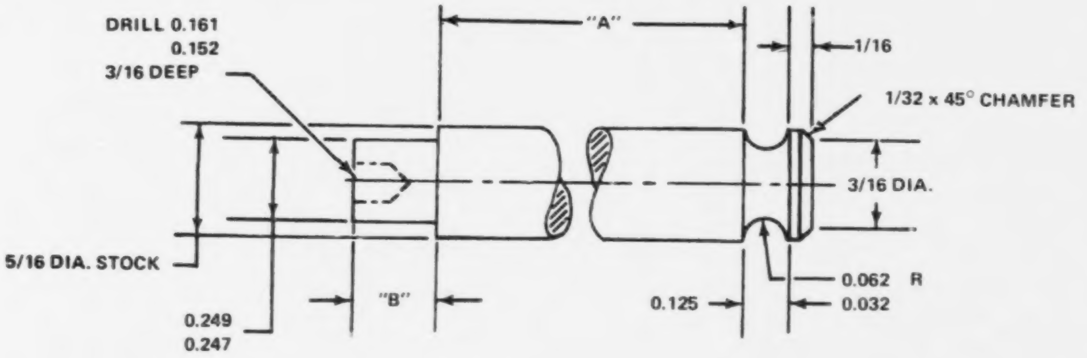

0.077
0.072
0.315
0.314
DIA.
DRILL #11 (0.191) DIA.
0.380
0.375
DIA.
0.042
0.037

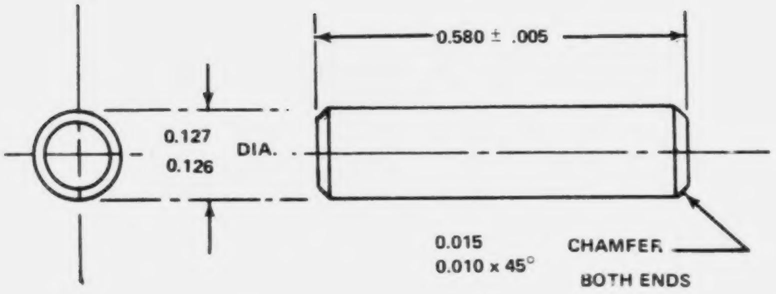
**Figure D-59.** Part Number SP 516 BUSHING, Solenoid
Fabricate from: NSN 9530-00-167-1818
Material: Metal Rod-Nickel, Cold Finish Annealed, Federal Specification MIL-N-6710, 0.375 Inch Dia.


DRILL 0.161
0.152
3/16 DEEP
"A"
1/16
1/32 x 45° CHAMFER
3/16 DIA.
5/16 DIA. STOCK
"B"
0.249
0.247
0.125
0.062 R
0.032

| DASH. NO. | DIM "A" | DIM "B" |
|---|---|---|
| | | |
| -2 | 1-1/32 | 0.250 |

NOTES:
1. BREAK ALL SHARP EDGES .005 TO 0.10
2. CAD. PLATE QQ-P-416 TYPE 1 CLASS A

**Figure D-60.** Part Number SP 1152-2 SUPPORT, Spring
Fabricate from: NSN 9510-00-294-9660
Material:


0.580 ± .005
0.127
0.126
DIA.
0.015
0.010 x 45°
CHAMFER
BOTH ENDS

NOTES:
1. HEAT TREAT TO ROCKWELL C-34 TO C-38

**Figure D-61.**

| | |
|---|---|
| Part Number | SP 1699-1 PIN, Solenoid Shaft |
| Fabricate from: | NSN 9510-00-294-9666 |
| Material: | Metal Bar - Steel Cold. Federal Specification MIL-S-6758, 4130 Comp, 0.375 Inch Dia. |

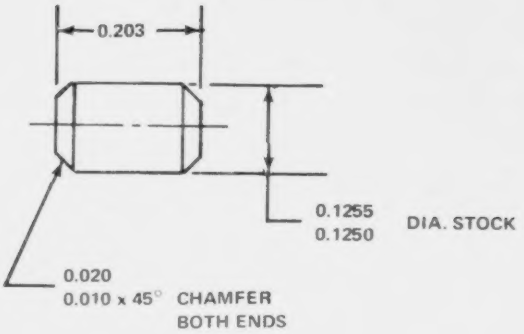
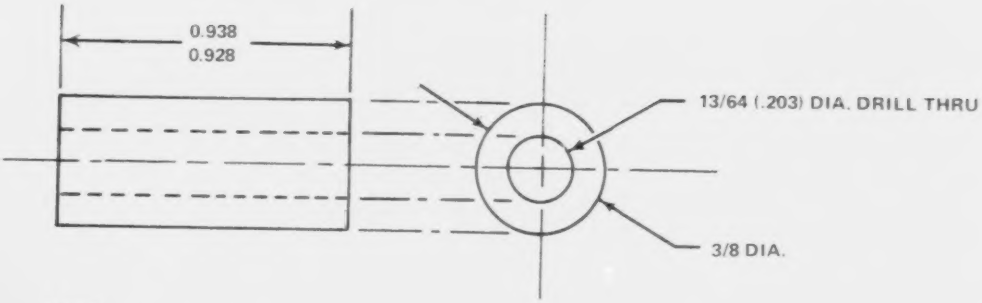
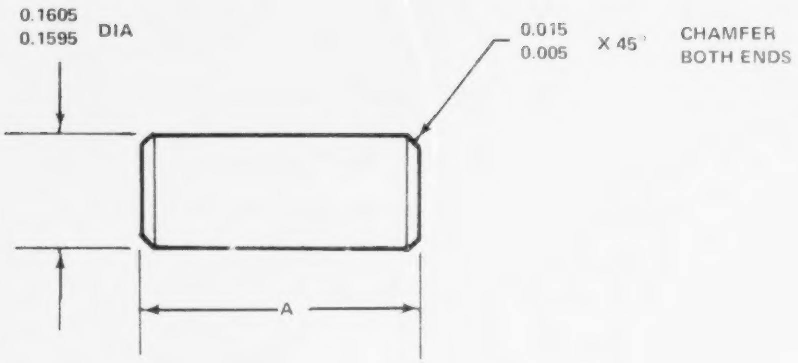

0.203
0.1255
0.1250
DIA. STOCK
0.020
0.010 x 45°
CHAMFER
BOTH ENDS

**Figure D-62.** Part Number SP 1705-1 PIN, Solenoid
Fabricate from: NSN 9510-00-224-1675
Material:


0.938
0.928
13/64 (.203) DIA. DRILL THRU
3/8 DIA.

NOTE:
1. BREAK SHARP EDGES

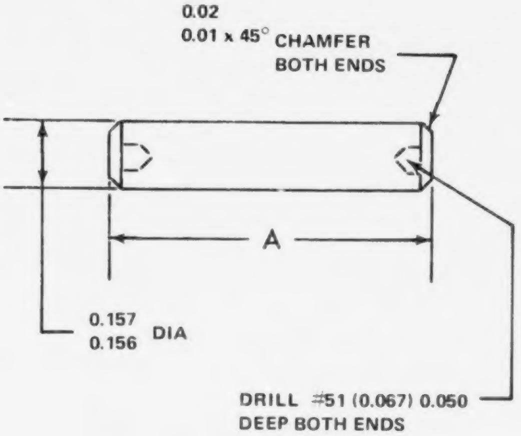
**Figure D-63.** Part Number SP 1706-1 SPACER
Fabricate from: NSN 9530-00-167-2026
Material:


0.1605
0.1595 DIA
0.015
0.005 X 45°
CHAMFER
BOTH ENDS
A

| DASH NO. | A DIM |
|---|---|
| -1 | 0.359 |
| -2 | 0.390 |

| PART NO. | NAME | STOCK SIZE | MATT. | SPEC. |
|---|---|---|---|---|
| SP-1707-1 | PIN | 3/16 DIA X 3/8 | 4130 | COMM. |
| SP1707-2 | PIN | 3/16 DIA X 13/32 | 4130 | COMM. |

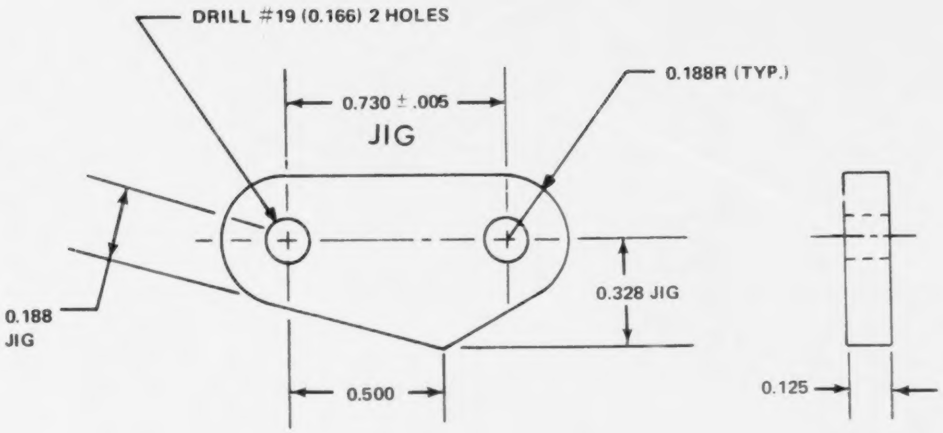
**Figure D-64.** Part Numbers SP 1707-1 AND -2, PIN, Solenoid Linkage
Fabricate from: NSN 9510-00-294-9666
Material: Metal Bar - Steel, Cold Finish. Federal Specification MIL-S-6758, Comp 4130, 0.375 Inch Dia.


0.02
0.01 x 45° CHAMFER
BOTH ENDS
A
0.157
0.156 DIA
DRILL #51 (0.067) 0.050
DEEP BOTH ENDS

| DASH NO. | A DIM. |
|---|---|
| | |
| -2 | 1.125<br>1.100 |

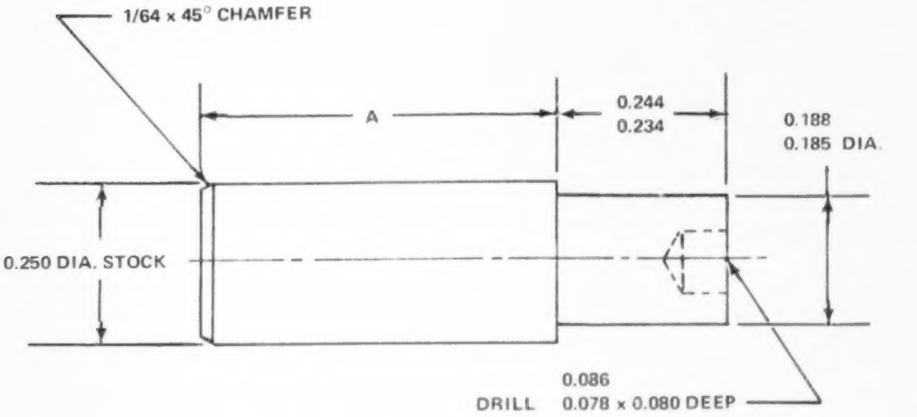
NOTES:
1. DIM'S ARE BEFORE PLATE
2. HEAT TREAT TO ROCKWELL C-25-29
3. CAD. PLATE QQ-P-416 CC. 2 TYPE II

**Figure D-65.** Part Number SP 1709-2 PIN, Shaft & Arm
Fabricate from: NSN 9510-00-294-9666
Material: Metal-Bar Steel Cold Finished, Federal Specification MIL-S-6758, Comp 4130, 0.375 Inch Dia.


DRILL #19 (0.166) 2 HOLES
0.730 ± .005
JIG
0.188R (TYP.)
0.188
JIG
0.328 JIG
0.500
0.125

NOTES:
1. BREAK ALL SHARP EDGES 0.005 TO 0.010
2. HEAT TREAT MATERIAL TO ROCKWELL C-25 TO 29
3. CAD. PLATE QQ-P-416 CLASS 2 TYPE II

**Figure D-66.** Part Number SP 1710-1 LINK SOLENOID
Fabricate from: NSN 9515-00-184-8811
Material: Metal Strip Steel, Hot Rolled. Federal Specification MIL-S-18729 Comp 4130, 0.125 Inch Thick


1/64 x 45° CHAMFER
A
0.244
0.234
0.188
0.185 DIA.
0.250 DIA. STOCK
0.086
DRILL 0.078 x 0.080 DEEP

| DASH NO. | A DIM. |
|---|---|
| -1 | 0.469 |
| | |

NOTE:
1. BREAK SHARP EDGES 0.005 TO 0.010

Figure D-67. Part Number SP 1715-1 PIN, Stop
Fabricate from: NSN 9510-00-618-8926
Material:

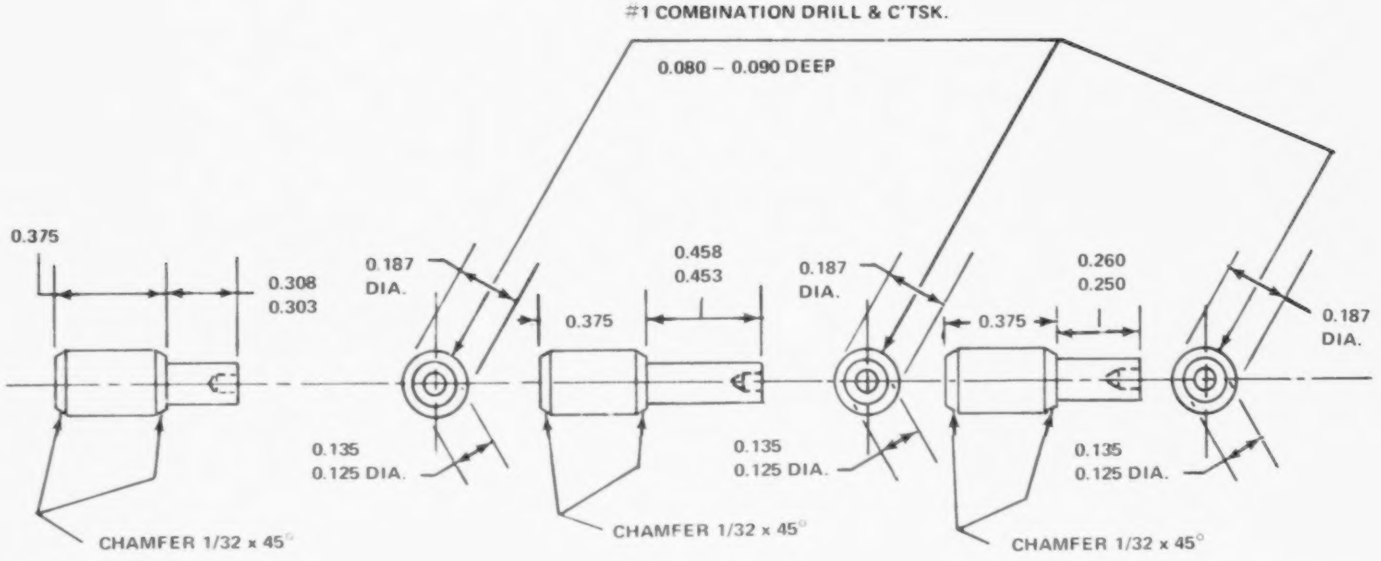
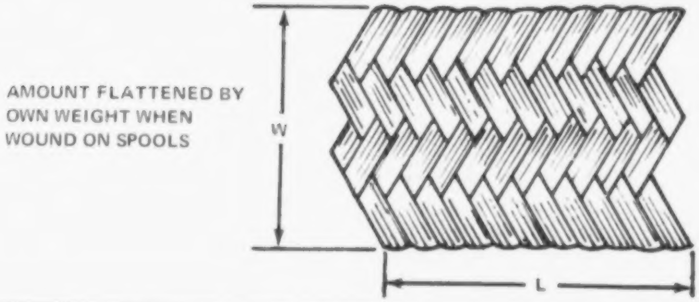

#1 COMBINATION DRILL & C'TSK.
0.080 – 0.090 DEEP
0.375
0.308
0.303
0.187
DIA.
0.375
0.458
0.453
0.187
DIA.
0.375
0.260
0.250
0.187
DIA.
0.135
0.125 DIA.
0.135
0.125 DIA.
0.135
0.125 DIA.
CHAMFER 1/32 x 45°
CHAMFER 1/32 x 45°
CHAMFER 1/32 x 45°

**Figure D-68.**

| | |
|---|---|
| Part Number | SP 3184-4 DOWEL PIN<br>SP 3184-5<br>SP 3184-6 |
| Fabricate from: | NSN 9510-00-596-2016 |
| Material: | |



| ENGINEERING INFORMATION | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| DASH NO. | 4 | 7 | 8 | 11 | 13 | 24 | 32 | 50 |
| SIZE DESIGNATION APPROX. INSIDE DIA. | 1/16 | 7/64 | 1/8 | 11/64 | 13/64 | 3/8 | 1/2 | 25/32 |
| NUMBER OF ENDS | 48 | 96 | 120 | 168 | 312 | 384 | 528 | 864 |
| SIZE OF INDIVIDUAL WIRES (A.W.G.) | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 |

NOTES: 1. BRAID MUST CONFORM TO SPEC. QQ-B-575
CODE: FIRST DASH NUMBER INDICATES NOMINAL I.D. OF BRAID IN 1/64 IN. INCREMENTS
SECOND DASH NUMBER INDICATES LENGTH IN 1/2 IN. INCREMENTS
EXAMPLE: 20-036-11-10= FLAT, NOMINAL SIZE 11/64 I.D. 5 INCHES LONG
MATERIAL: COPPER WIRE
FINISH: TIN PLATE

**Figure D-69.** Part Number 20-036-8-24, BRAID, Wire
Fabricate from: NSN 6145-00-628-7753
Material:

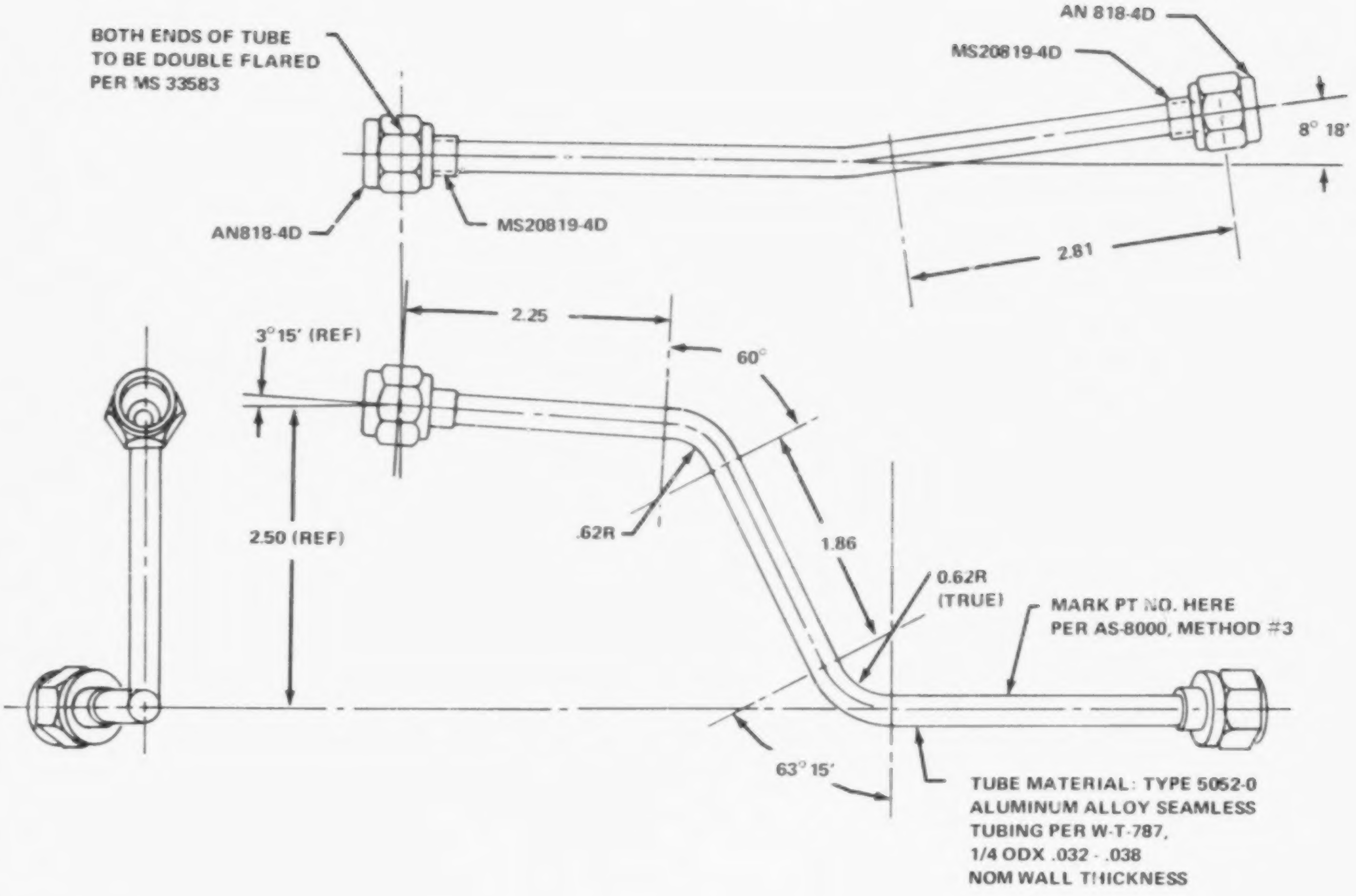
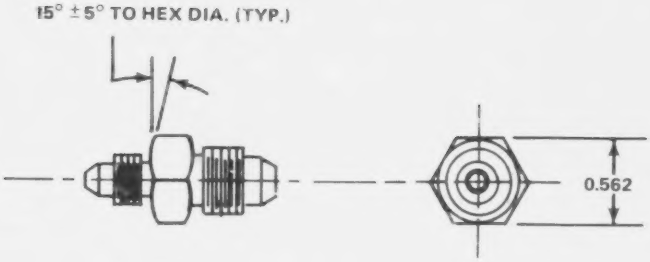

BOTH ENDS OF TUBE
TO BE DOUBLE FLARED
PER MS 33583
AN818-4D
MS20819-4D
AN 818-4D
MS20819-4D
8° 18'
2.81
2.25
3°15' (REF)
60°
2.50 (REF)
.62R
1.86
0.62R
(TRUE)
MARK PT NO. HERE
PER AS-8000, METHOD #3
63° 15'
TUBE MATERIAL: TYPE 5052-0
ALUMINUM ALLOY SEAMLESS
TUBING PER W-T-787,
1/4 ODX .032 - .038
NOM WALL THICKNESS

**Figure D-70.** Part Number 99C29, TUBE, Valve to Valve

Fabricate from: NSN 4710-00-278-6398
NSN 4730-00-287-0289
NSN 4730-00-302-8641

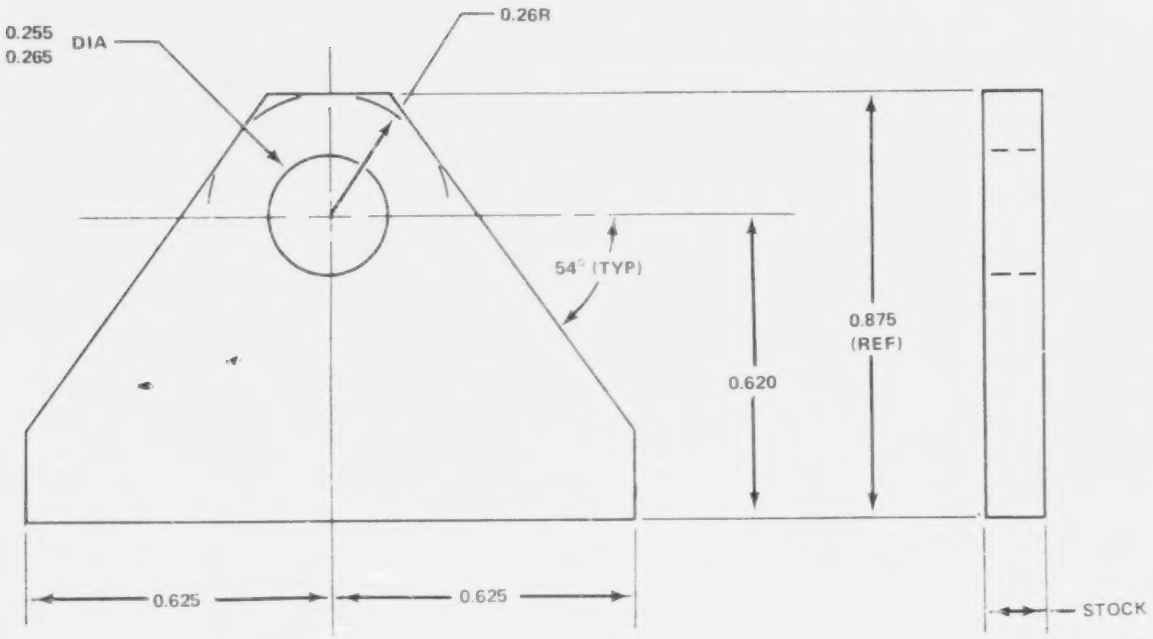
Material: Tube Aluminum Alloy, Federal Specification WW-T-700/4, 1/4 Inch Diameter OD, 0.035 Inch Wall Thickness



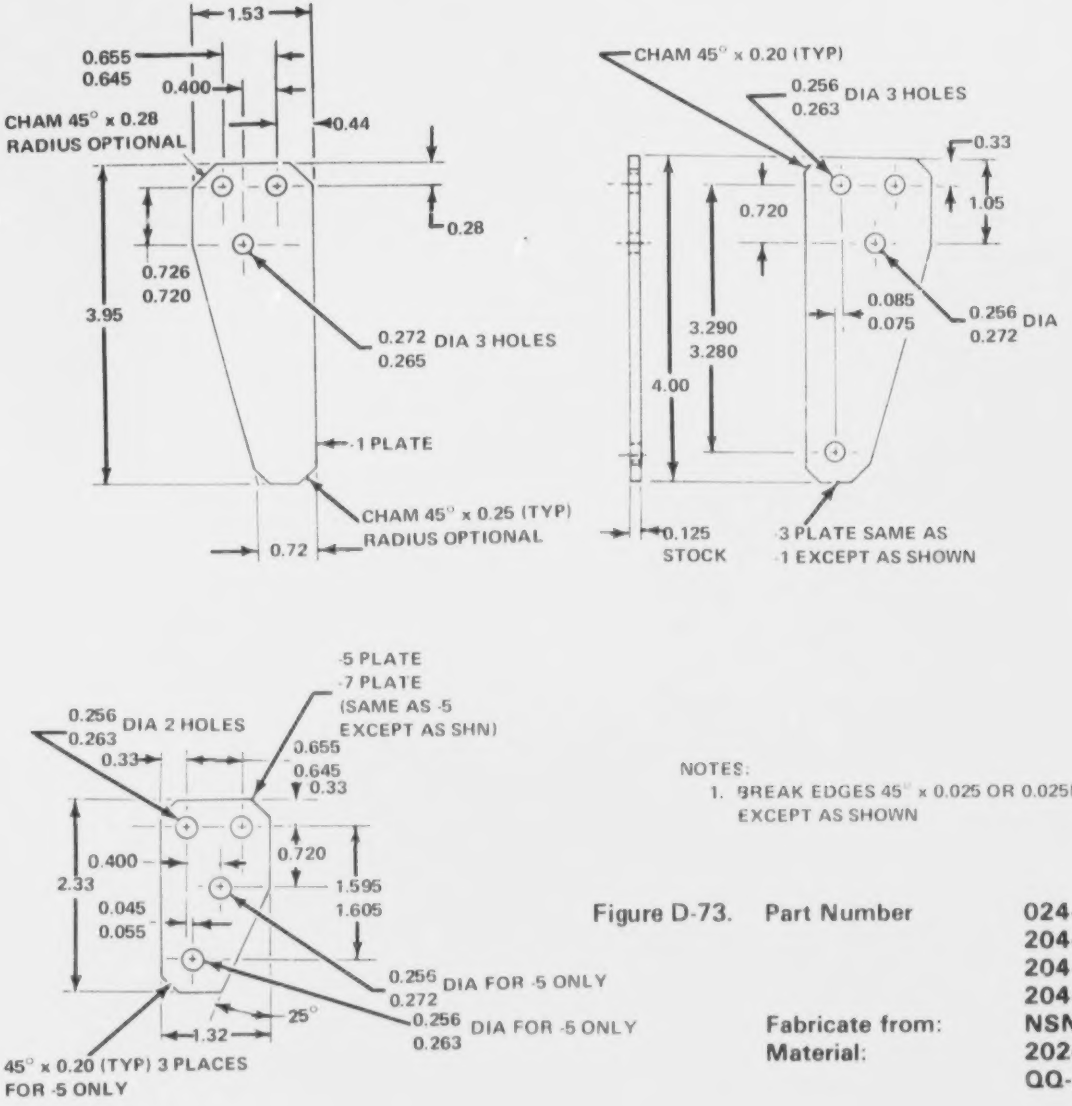
BREAK ALL SHARP EDGES AND REMOVE ALL BURRS AND SLIVERS WHICH MIGHT BECOME DISLODGED UNDER USAGE

Figure D-71.

| | |
|---|---|
| Part Number | 110-033-1 REDUCER TUBE |
| Fabricate from: | NSN 4730-00-838-9974 |
| Finish: | Hex Surface 25<br>Anodize per MIL-A-8625 Or<br>Chem Film Per MIL-C-55541<br>(Light Blue Dye). |
| Material: | |


0.255
0.265
DIA
0.26R
54° (TYP)
0.620
0.875
(REF)
0.625
0.625
STOCK

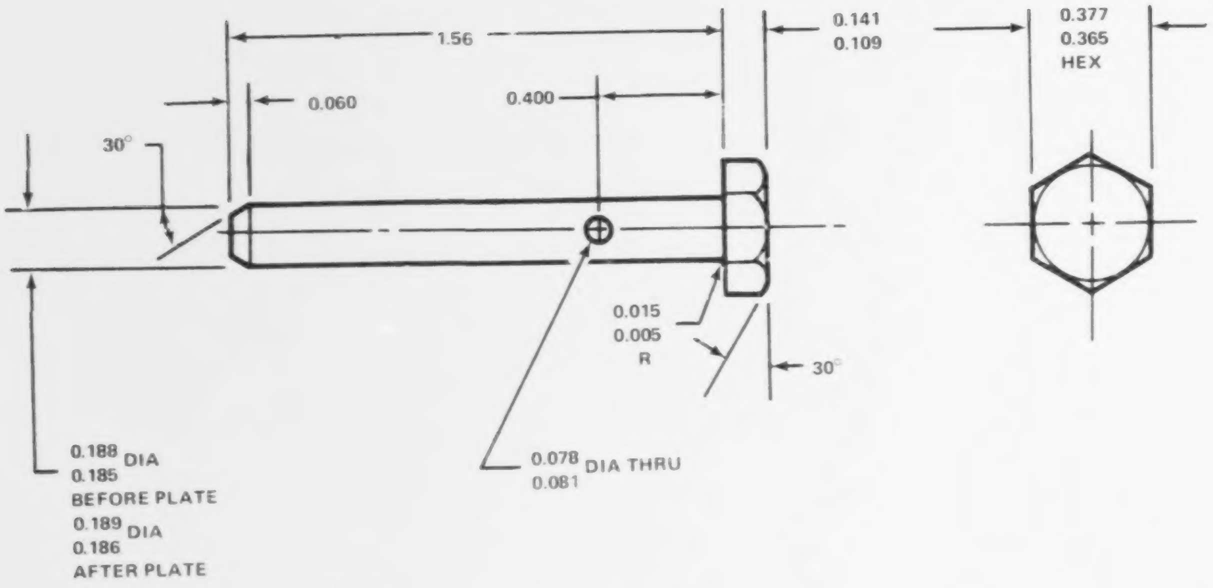
| Figure D-72. | Part Number | 204-011-149-1 CLAMP, Strap Retention Nut Main Rotor |
|---|---|---|
| | Fabricate from: | NSN 9515-00-204-0220 |
| | Material: | Steel Sheet, Federal Specification MIL-S-18729, Condn, 0.125 Inch Thick |


1.53
0.655
0.645
0.400
0.44
CHAM 45° x 0.28
RADIUS OPTIONAL
0.28
0.726
0.720
3.95
0.272 DIA 3 HOLES
0.265
-1 PLATE
CHAM 45° x 0.25 (TYP)
RADIUS OPTIONAL
0.72
CHAM 45° x 0.20 (TYP)
0.256 DIA 3 HOLES
0.263
0.33
1.05
0.720
3.290
3.280
4.00
0.085
0.075
0.256 DIA
0.272
0.125
STOCK
-3 PLATE SAME AS
-1 EXCEPT AS SHOWN
-5 PLATE
-7 PLATE
(SAME AS -5
EXCEPT AS SHN)
0.256 DIA 2 HOLES
0.263
0.33
0.655
0.645
0.33
0.400
2.33
0.720
1.595
1.605
0.045
0.055
0.256 DIA FOR -5 ONLY
0.272
0.256 DIA FOR -5 ONLY
0.263
25°
1.32
45° x 0.20 (TYP) 3 PLACES
FOR -5 ONLY

NOTES:
1. BREAK EDGES 45° x 0.025 OR 0.025R
EXCEPT AS SHOWN

Figure D-73.

| | |
|---|---|
| Part Number | 024-011-458-1 SWASHPLATE<br>204-011-458-3<br>204-011-458-5<br>204-011-458-7 |
| Fabricate from: | NSN 9535-00-232-0418 |
| Material: | 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, T3, 0.125 Inch Thick |


1.56
0.141
0.109
0.377
0.365
HEX
0.060
0.400
30°
0.015
0.005
R
30°
0.188 DIA
0.185
BEFORE PLATE
0.189 DIA
0.186
AFTER PLATE
0.078 DIA THRU
0.081

NOTES:

MARK PER BPS FW B 4050

1. BREAK EDGES 0.015 X 45° OR 0.015R UNLESS OTHERWISE NOTED
2. ALT. MATL: MAY BE MADE FROM AN3-21A (OR LONGER) BOLT. MARKINGS ON BOLT HEAD TO BE REMOVED

| Figure D-74. | Part Number | 204-012-110-1 BOLT |
|---|---|---|
| | Fabricate from: | NSN 5306-00-182-2010 |
| | Material: | 4130 STL/MIL-S-6758 HT-125-145KSI<br>Cad Plate CB1 |

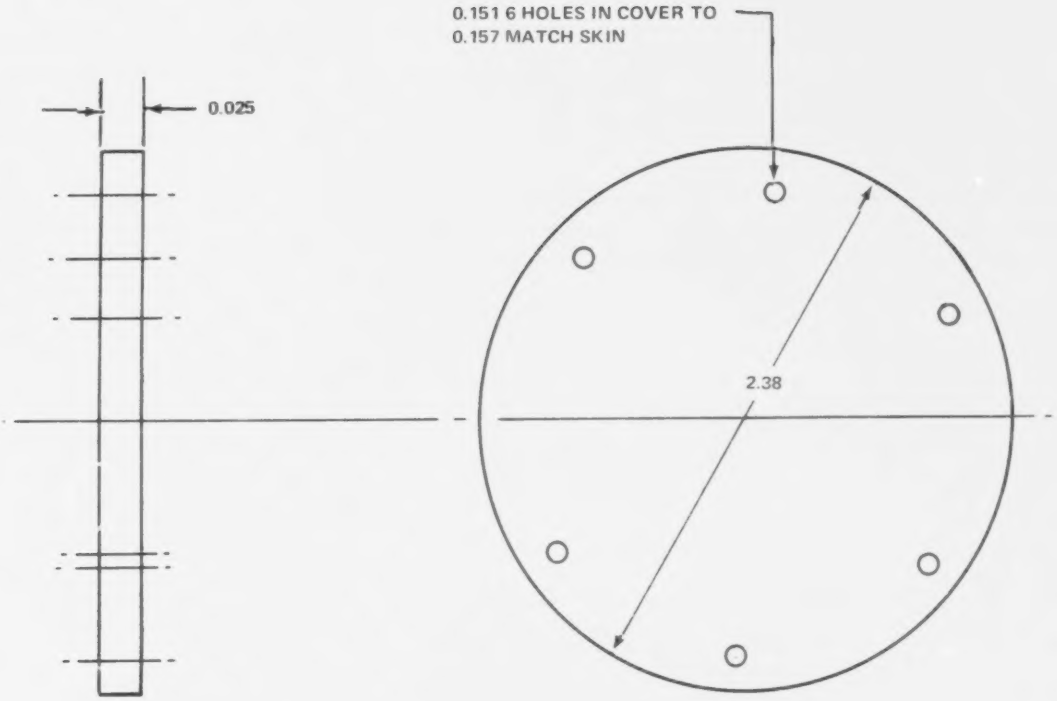
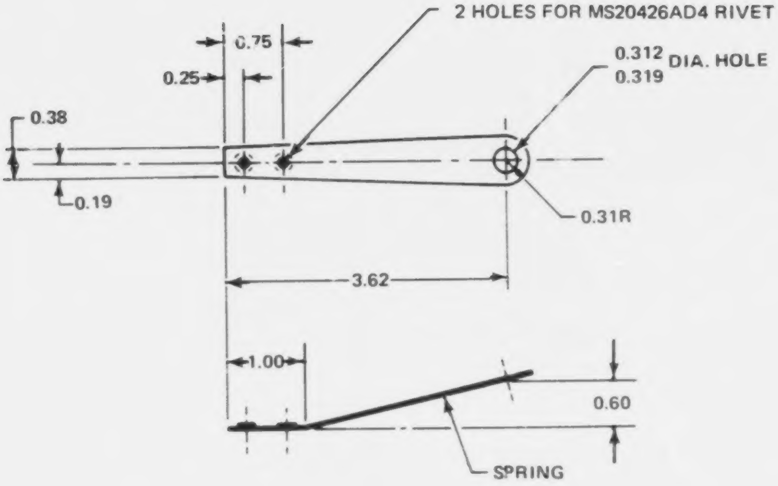

0.151 6 HOLES IN COVER TO
0.157 MATCH SKIN
0.025
2.38

**Figure D-75.**

| | |
|---|---|
| Part Number | 204-030-800-443 Cover Tail Boom Assembly |
| Fabricate from: | NSN 9535-00-167-2278 |
| Material: | 2024 AL ALY Federal Specification QQ-A-250/5, 0.0250 Inch Thick |


2 HOLES FOR MS20426AD4 RIVET
0.75
0.25
0.312
0.319
DIA. HOLE
0.38
0.19
0.31R
3.62
1.00
0.60
SPRING

| | | |
|---|---|---|
| Figure D-76. | Part Number | 204-030-437-3 SPRING |
| | Fabricate from: | NSN 9515-00-684-6944<br>NSN 5325-00-141-4002<br>NSN 5325-00-721-5503 |
| | Material: | Metal Strip Steel Hot Rolled, Federal Specification MIL-S-7947, 0.020 Inch Thick |

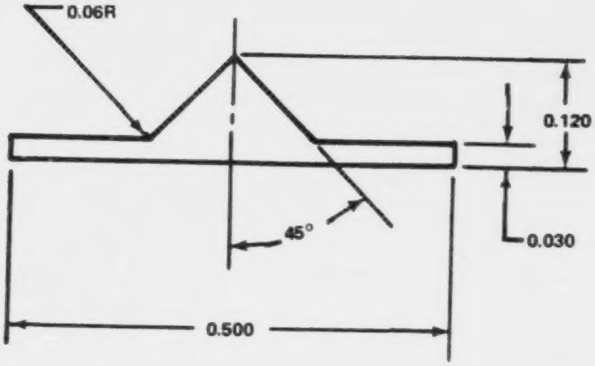
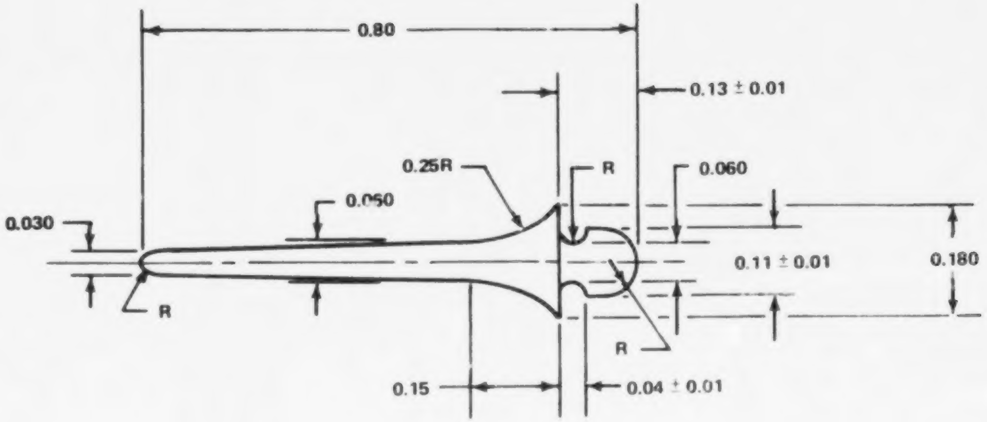
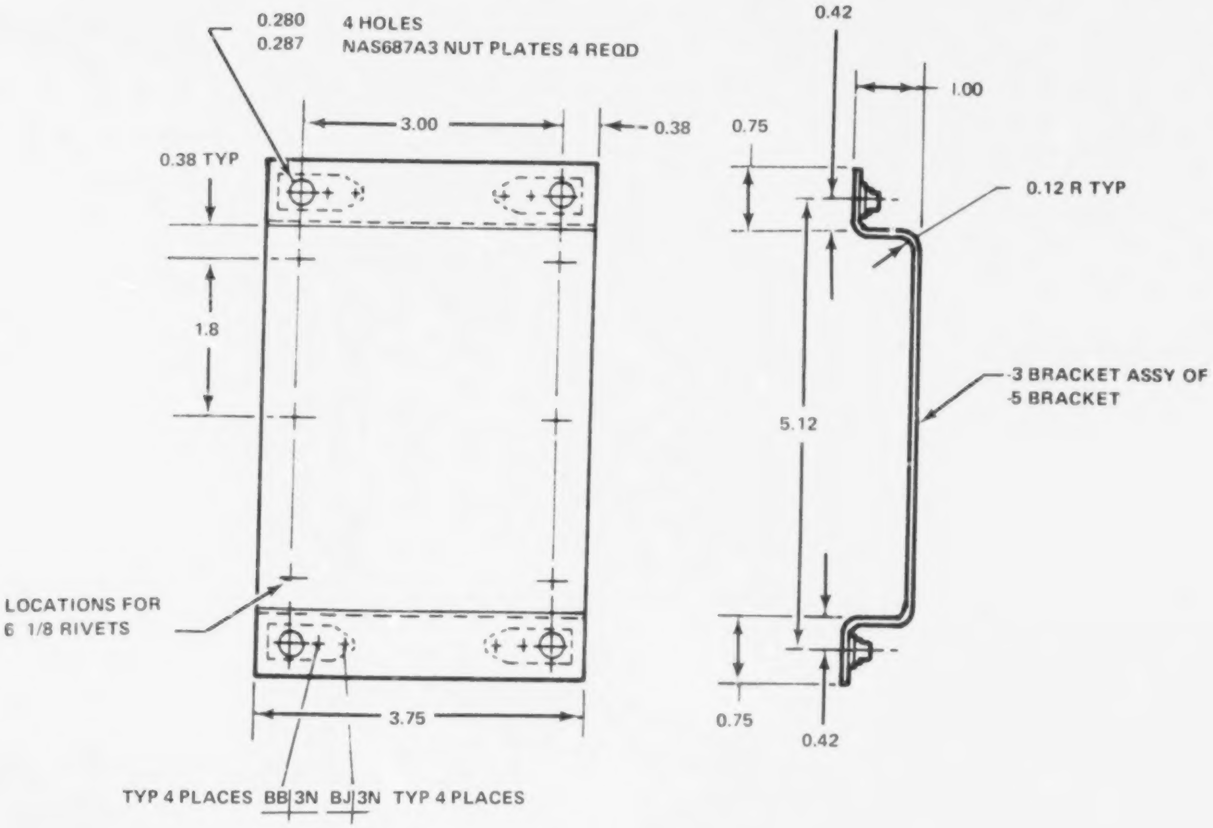

0.06R
0.120
0.030
45°
0.500

Figure D-77.
Part Number 204-031-003-13 ,-14 Rubber Seal
Fabricate from: NSN 9320-00-759-9758
Material: LG. Rubber, 105.0 Inch Length


0.80
0.13 ± 0.01
0.25R
R
0.060
0.050
0.030
0.11 ± 0.01
0.180
R
R
0.15
0.04 ± 0.01

| PART NUMBER | NOMENCLATURE | FABRICATE FROM NSN | LENGTH |
|---|---|---|---|
| 204-031-003-23 | SEAL | 5340-00-949-8281 | 49 IN. |

Figure D-78.


0.280
0.287
4 HOLES
NAS687A3 NUT PLATES 4 REQD
3.00
0.38
0.38 TYP
1.8
LOCATIONS FOR
6 1/8 RIVETS
3.75
TYP 4 PLACES BB|3N BJ|3N TYP 4 PLACES
0.42
1.00
0.75
0.12 R TYP
-3 BRACKET ASSY OF
-5 BRACKET
5.12
0.75
0.42

NOTE:
1. ZINC CHROMATE FINISH

| Figure D-79. | Part Number | 204-031-139-3 BRACKET ASSY |
|---|---|---|
| | Fabricate from: | NSN 9535-00-085-9729, 4 EA 5310-00-778-9480 |
| | Material: | 2024 AL ALY Federal Specification QQ-A-250/5, 0.032 Inch Thick |

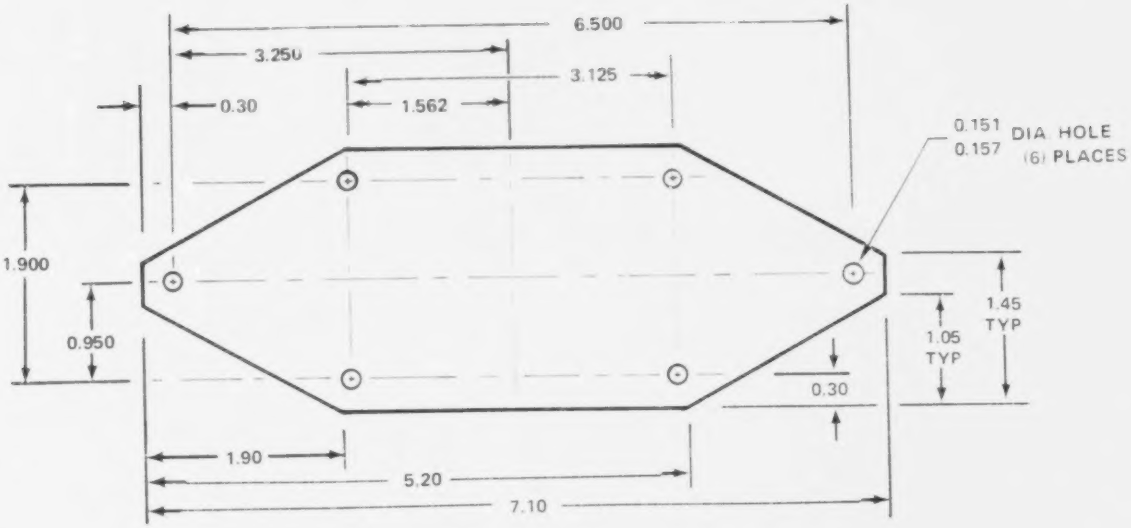
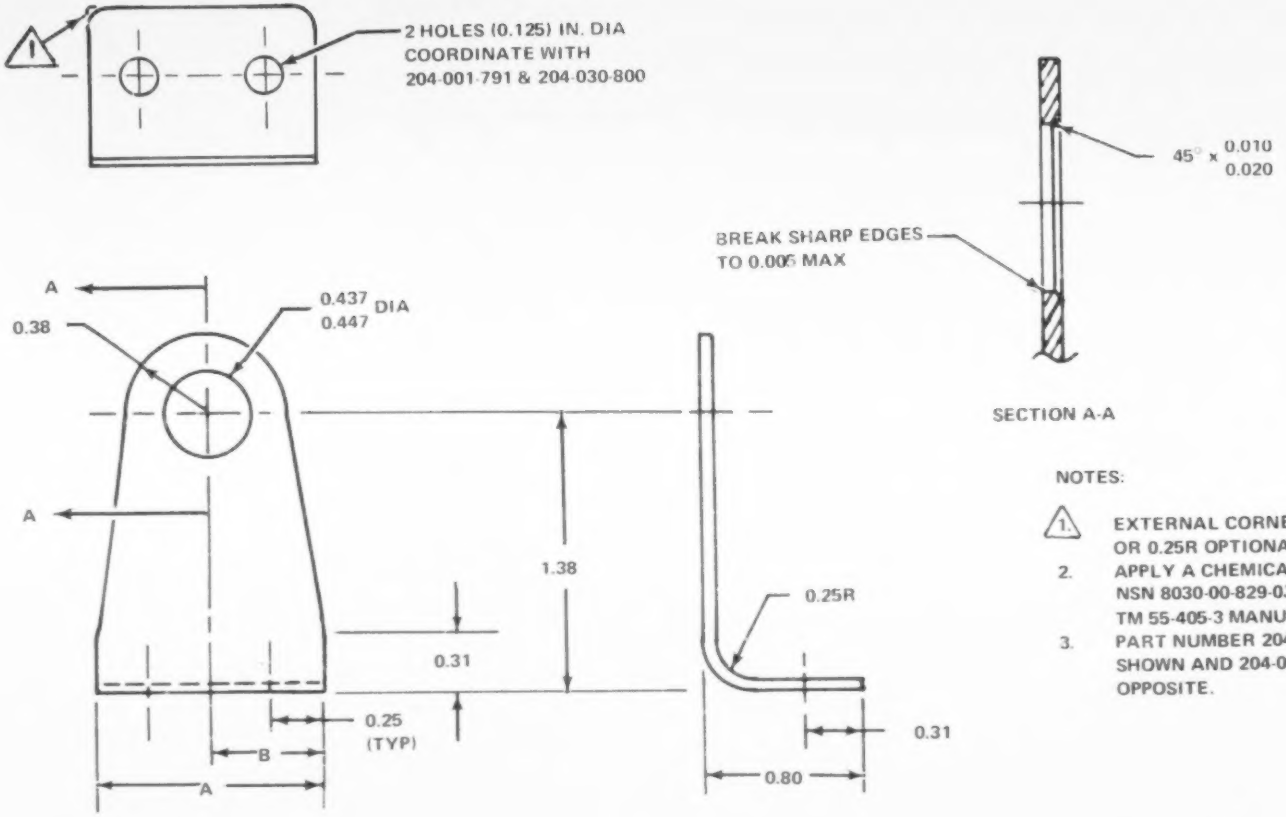

6.500
3.250
3.125
0.30
1.562
0.151
0.157
DIA. HOLE
(6) PLACES
1.900
0.950
1.45
TYP
1.05
TYP
0.30
1.90
5.20
7.10

Figure D-80. Part Number 204-031-251-1 COVER PLATE, Antenna Cutout
Fabricate from: NSN 9535-00-086-9789
Material: 2024 AL ALY Federal Specification QQ-A-250/5, 0.032 Inch Thick


2 HOLES (0.125) IN. DIA
COORDINATE WITH
204-001-791 & 204-030-800
1
A
A
0.38
0.437
0.447
DIA
1.38
0.31
0.25
(TYP)
B
A
0.25R
0.31
0.80
BREAK SHARP EDGES
TO 0.005 MAX
45° x 0.010
0.020

SECTION A-A

NOTES:

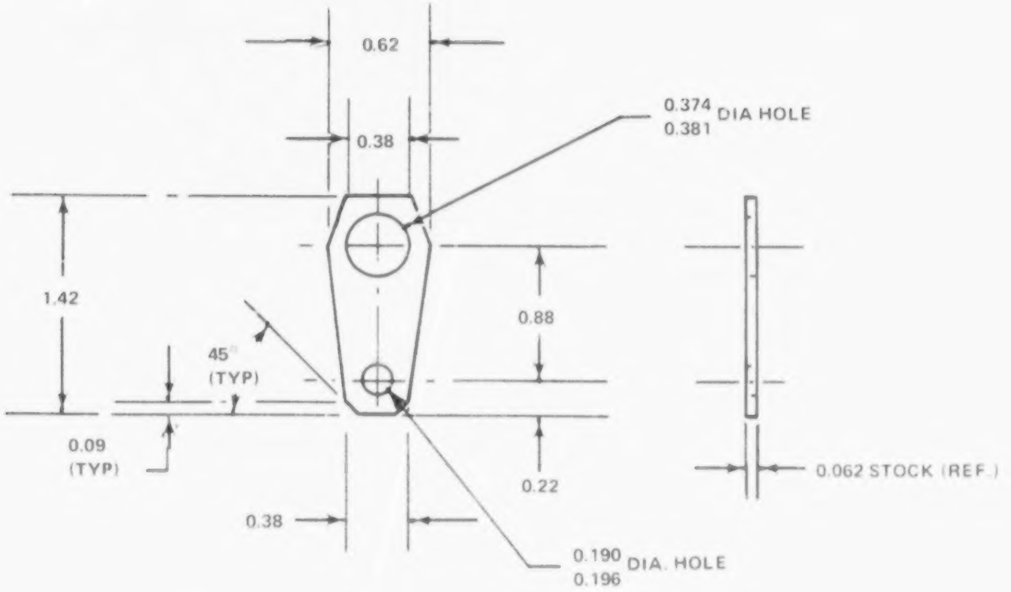
1. EXTERNAL CORNERS SQUARE OR 0.25R OPTIONAL.
2. APPLY A CHEMICAL FILM NSN 8030-00-829-0376 PER TM 55-405-3 MANUAL.
3. PART NUMBER 204-001-849-1 SHOWN AND 204-001-849-2 OPPOSITE.

| PART NUMBER | DIM A | DIM B |
|---|---|---|
| 204-001-790-1 | 1.12 | 0.56 |
| 204-001-849-1 | 1.31 | 0.80 |
| 204-001-849-2 | 1.31 | 0.80 |

Figure D-81. Part Numbers: 204-001-790-1 SUPPORT
204-001-849-1
204-001-849-2

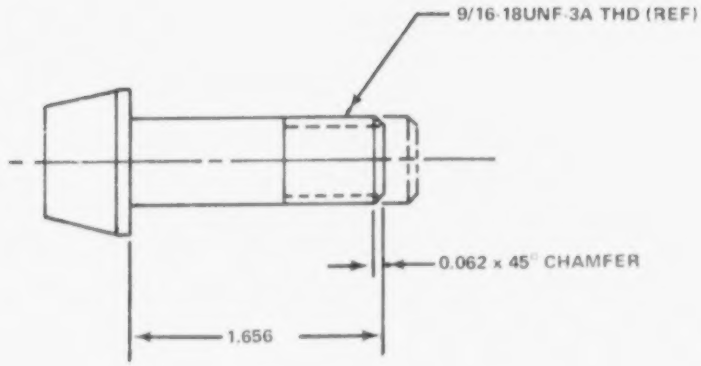
Fabricate from: NSN 9535-00-232-0376

Material: 2024 AL ALY, Federal Specification QQ-A-250/5, 0.063 Inch Thick


0.62
0.38
0.374
0.381 DIA HOLE
1.42
45°
(TYP)
0.88
0.09
(TYP)
0.22
0.38
0.190
0.196 DIA. HOLE
0.062 STOCK (REF.)

NOTES:
BREAK SHARP EDGES 0.015 x 45° CHAMFER

Figure D-82. Part Number 204-040-732-1 Strap, Support
Fabricate from: NSN 9515-00-683-9294 on
P/N 204-040-732-1 Clip
Material: Metal Strip Steel, Federal Specification MIL-S-7947, 0.020 Inch Thick


9/16-18UNF-3A THD (REF)
0.062 x 45° CHAMFER
1.656

| Figure D-83. | Part Number | 204-040-787-1 BOLT, Internal Wrenching |
|---|---|---|
| | Fabricate from: | NSN 5306-00-584-5075 |
| | Material: | Bolt Internal Wrenching-Steel. Make from MS20009H16 Bolt |

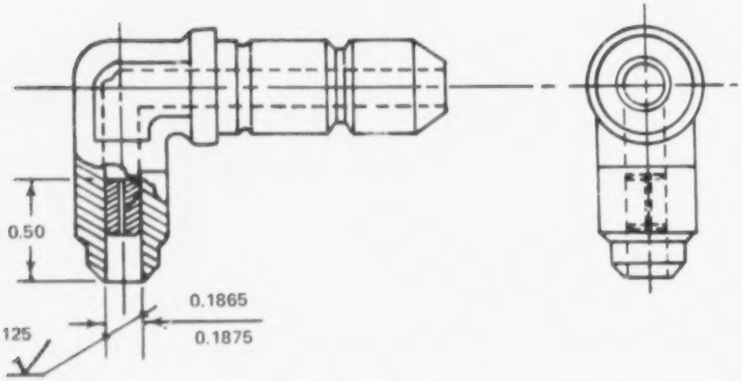

0.50
0.1865
0.1875
125

**Figure D-84.** Part Number 204-060-031-15 RESTRICTOR, Fitting
Fabricate from: NSN 9510-00-243-7626 and 4730-00-231-3026
Material:

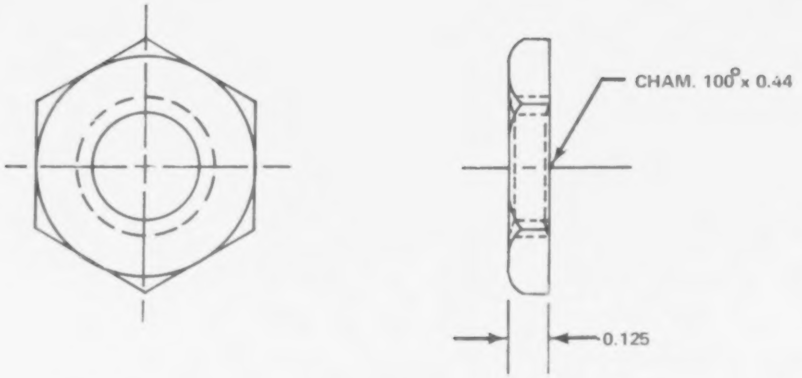

CHAM. 100° x 0.44
0.125

Figure D-85. Part Number 204-060-056-1 NUT, Pressure Switch Support
Fabricate from: NSN 5310-00-208-5769
Material: Steel, Cadmium Plated

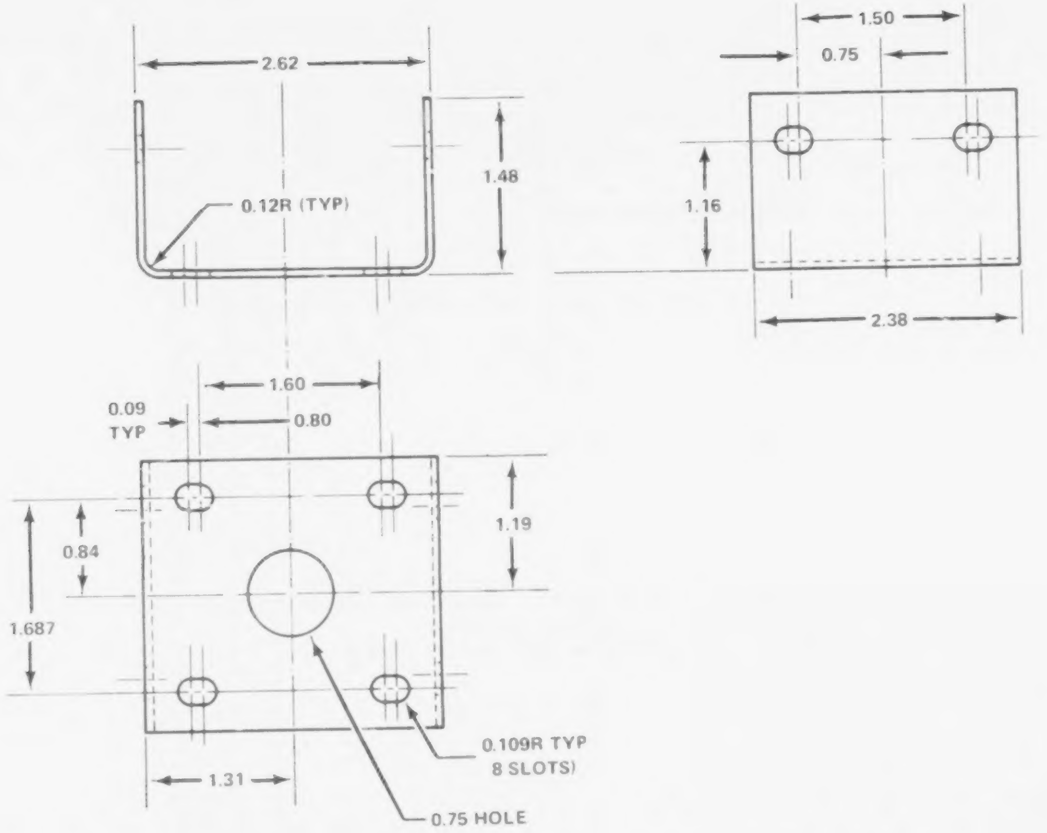

2.62
1.48
0.12R (TYP)
1.50
0.75
1.16
2.38
1.60
0.09
TYP
0.80
1.19
0.84
1.687
0.109R TYP
8 SLOTS)
1.31
0.75 HOLE

Figure D-86. Part Number 204-070-175-1 MOUNT, Valve Control, Heating
Fabricate from: NSN 9535-00-232-0378
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.063 Inch Thick

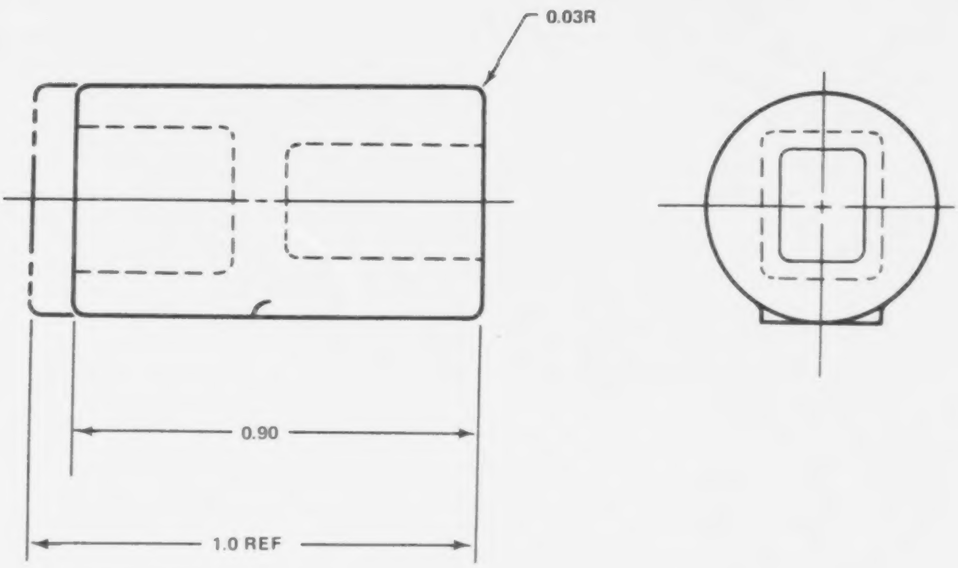


Figure D-87. Part Number 204-070-185-1 CONNECTOR, Valve Selector, Bleed Air
Fabricate from: NSN 1660-00-736-1007
Material: Adapter, Aluminum Alloy Casting

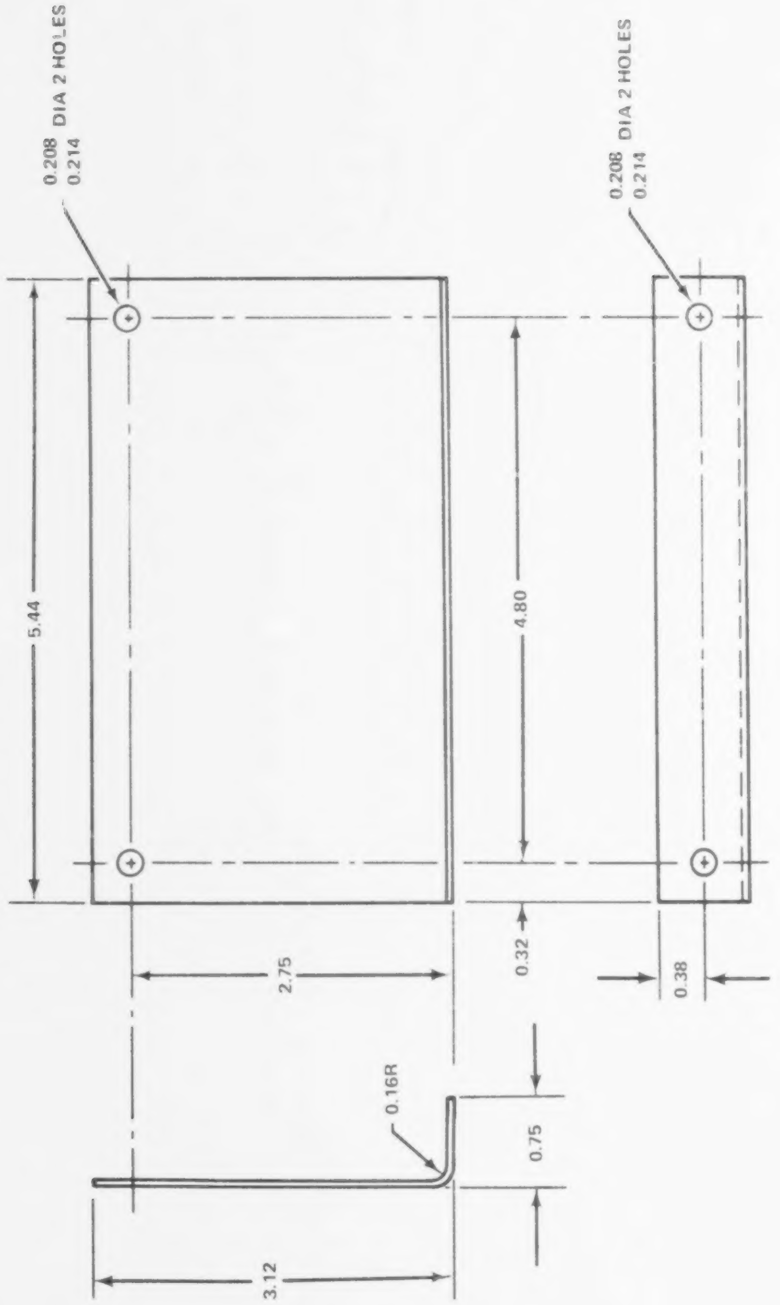
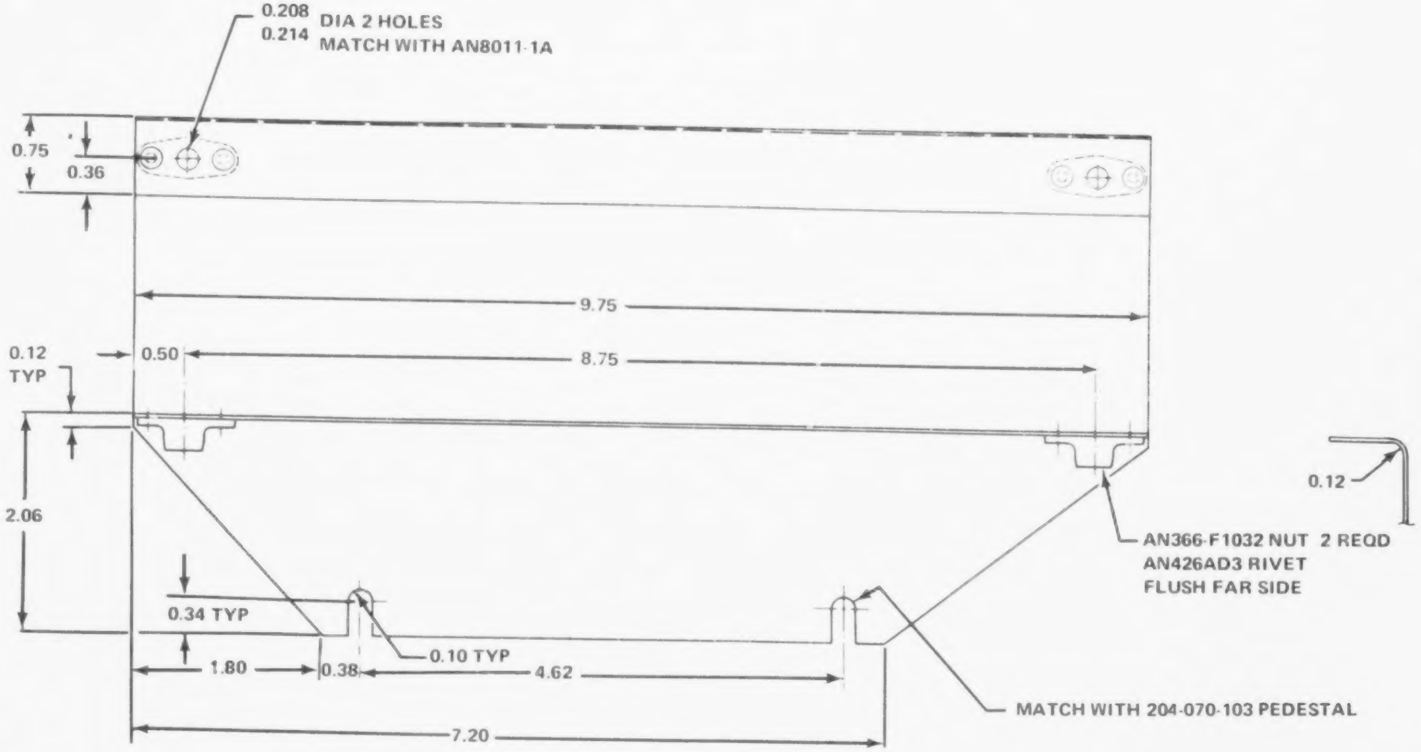

0.208
0.214 DIA 2 HOLES
0.208
0.214 DIA 2 HOLES
5.44
4.80
2.75
0.32
0.38
0.16R
0.75
3.12

**Figure D-88.** Part Number 204-070-230-1 BRACKET, Valve, Heating and Bleed Air
Fabricate from: NSN 9535-00-167-2280
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.040 Inch Thick


0.208
0.214 DIA 2 HOLES
MATCH WITH AN8011-1A
0.75
0.36
9.75
0.12
TYP
0.50
8.75
0.12
2.06
AN366-F1032 NUT 2 REQD
AN426AD3 RIVET
FLUSH FAR SIDE
0.34 TYP
0.10 TYP
1.80
0.38
4.62
MATCH WITH 204-070-103 PEDESTAL
7.20

| PART NUMBER | NAME | FABRICATE FROM: |
|---|---|---|
| 204-070-255-3 | BRACKET | NSN 9535-00-167-2279 |
| NAS697A3 | NUT | NSN 5310-00-275-4364 |
| MS20426AD3 | RIVET | NSN 5320-00-117-6938 |

**Figure D-89.** Part Number 204-070-255-1 & 2 BRACKET, Map & Data Case

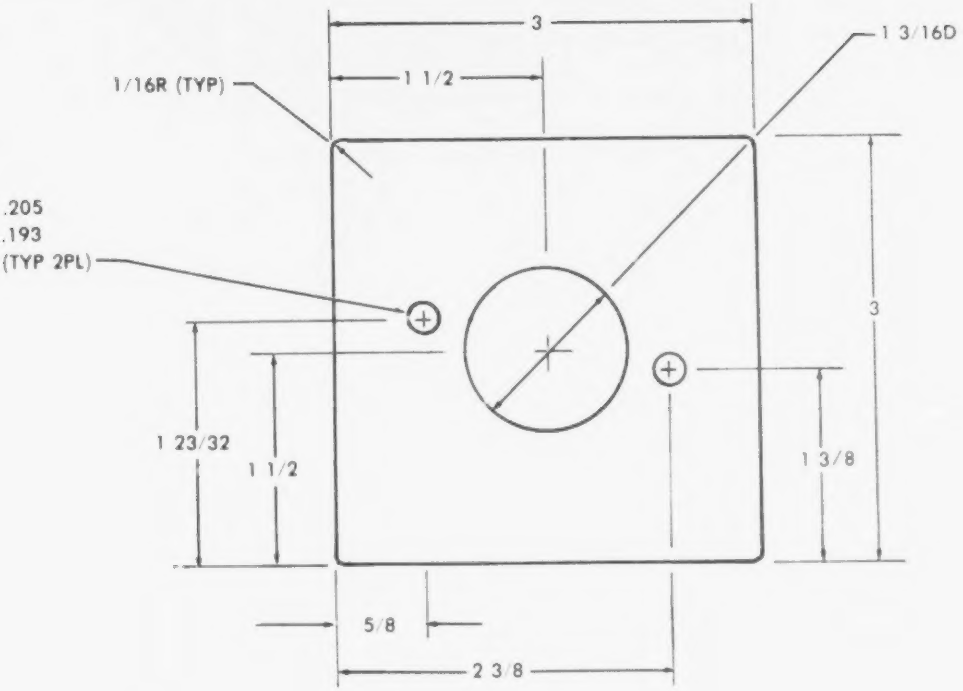

3
1 3/16D
1/16R (TYP)
1 1/2
.205
.193
(TYP 2PL)
3
1 23/32
1 1/2
1 3/8
5/8
2 3/8

Figure D-90. Plate, Structural, Aircraft, PN ES-B-220316
Fabricate from: NSN 9535-00-232-0565
Material: .032 x 3 x 3 AL ALY, 2024-T3, QQ-A-250/5

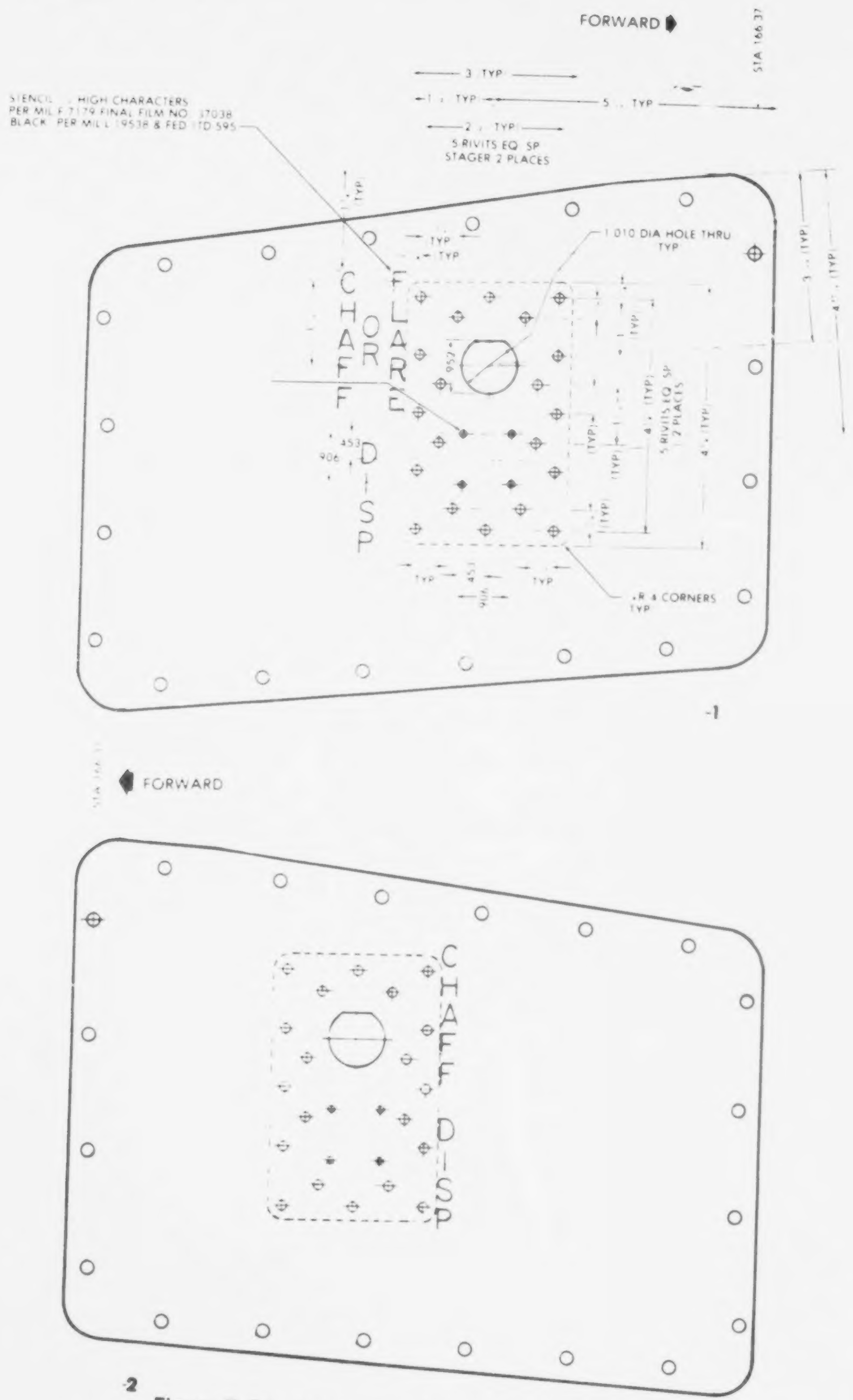
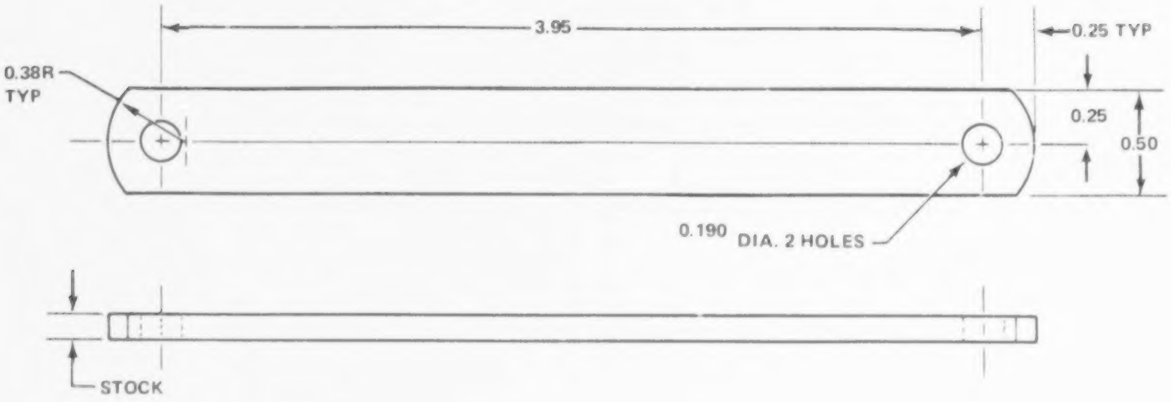
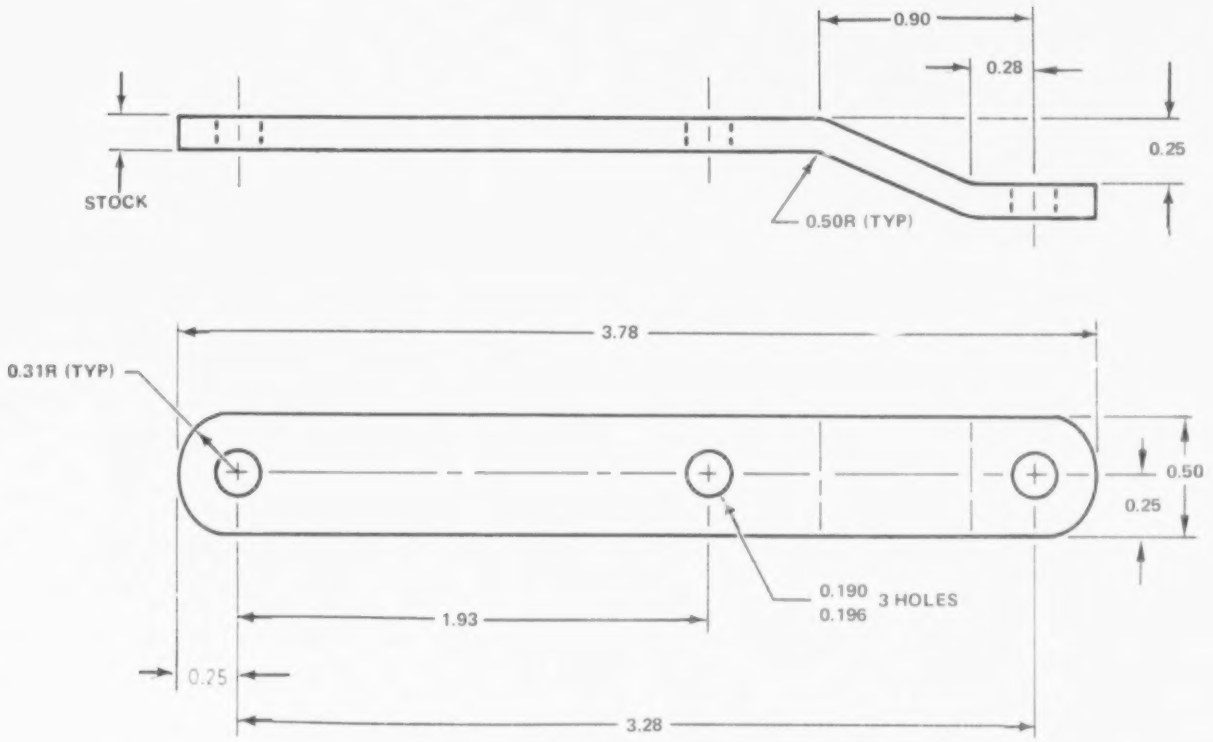

FORWARD
STA 166.37
STENCIL . HIGH CHARACTERS PER MIL F 7179 FINAL FILM NO. 37038 BLACK PER MIL L 19538 & FED STD 595
3 TYP
1 TYP
5 TYP
2 TYP
5 RIVITS EQ SP STAGER 2 PLACES
TYP
1.010 DIA HOLE THRU TYP
3 (TYP)
4 (TYP)
CHAFF OR FLARE DISP
.952
.453
.906
5 RIVITS EQ SP 2 PLACES
R 4 CORNERS TYP
-1
FORWARD
CHAFF DISP
-2

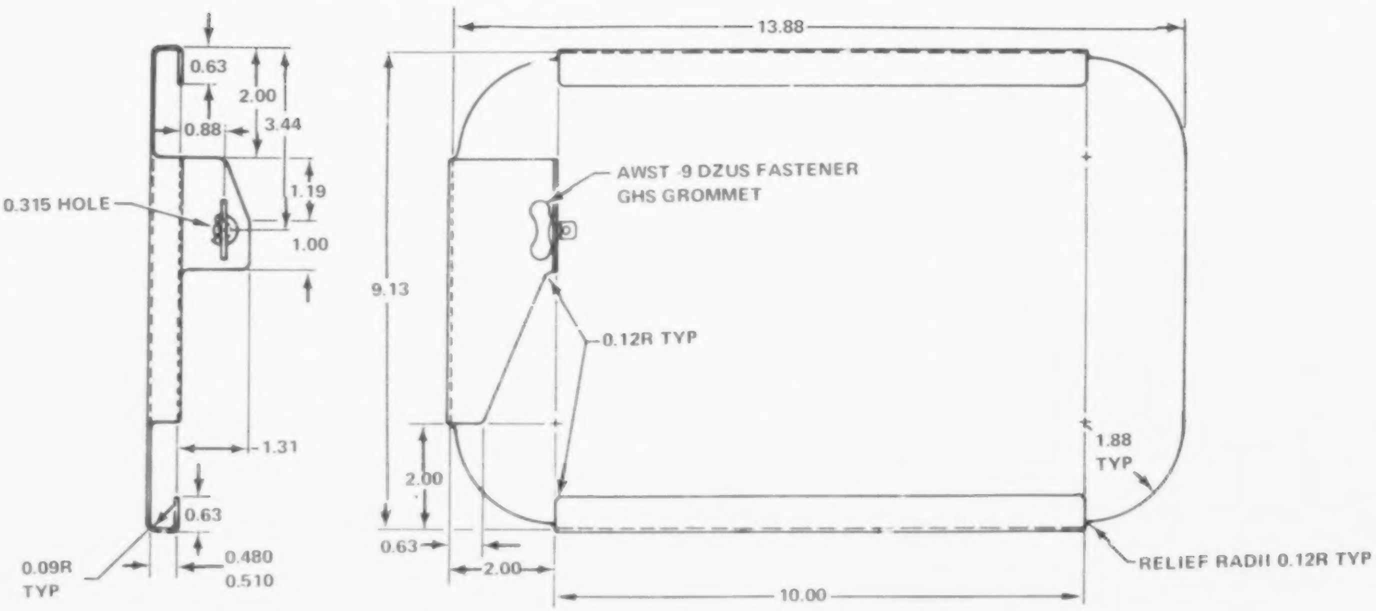
Figure D-91. Access Panel, Assy PN ES-D-221175
Fabricate from: NSN 9535-232-1882
Material: AL ALY, sheet, .063 THK., 6061-T6, QQ-A-250/11


3.95
0.25 TYP
0.38R
TYP
0.25
0.50
0.190 DIA. 2 HOLES
STOCK

| | | |
|---|---|---|
| Figure D-92. | Part Number | 204-070-274-1 LINK, Control to Bellcrank, Defrost |
| | Fabricate from: | NSN 9535-00-232-0418 |
| | Material: | 2024 AL ALY Sheet, Federal Specification, QQ-A-250/5, 0.125 Inch Thick |


0.90
0.28
0.25
STOCK
0.50R (TYP)
3.78
0.31R (TYP)
0.50
0.25
0.190
0.196
3 HOLES
1.93
0.25
3.28

| Figure D-93. | | |
|---|---|---|
| | Part Number | 204-070-275-1, BELLCRANK, Heating and Defrost Control |
| | Fabricate from: | NSN 9535-00-232-0418 |
| | Material: | 2024 AL ALY Sheet, Federal Specification, QQ-A 250/5, 0.125 Inch Thick |


13.88
0.63
2.00
0.88
3.44
1.19
1.00
0.315 HOLE
1.31
0.63
0.480
0.510
0.09R
TYP
AWST -9 DZUS FASTENER
GHS GROMMET
9.13
0.12R TYP
2.00
0.63
2.00
1.88
TYP
RELIEF RADII 0.12R TYP
10.00

| PART NUMBER | NAME | FABRICATE FROM: |
|---|---|---|
| 204-070-528-3 | PLATE | NSN 9535-00-167-2278 |
| AW5T9 | FASTENER | NSN 5325-00-838-8804 |
| GH5 | GROMMET | NSN 5325-00-141-4002 |

**Figure D-94.** Part Number 204-070-528-1 COVER ASSEMBLY, Cargo Hook Mirror

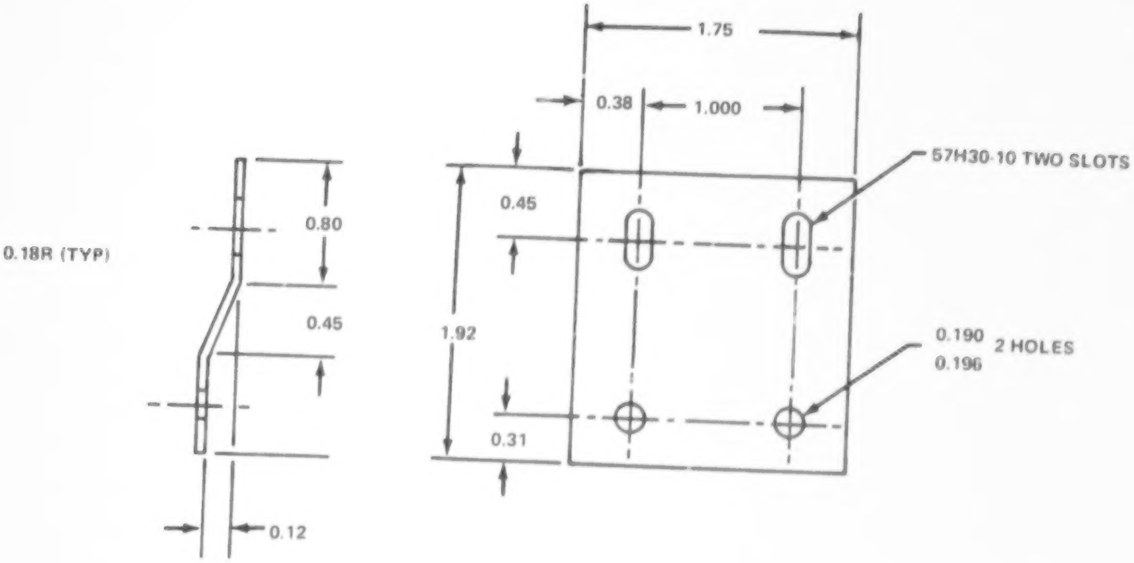

1.75
0.38
1.000
57H30-10 TWO SLOTS
0.45
0.80
0.18R (TYP)
0.45
1.92
0.190
0.196
2 HOLES
0.31
0.12

Figure D-95. Part Number 204-070-583-1 BRACKET, Upper Switch
Fabricate from: NSN 9535-00-640-2311
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-362, 0.050 Inch Thick

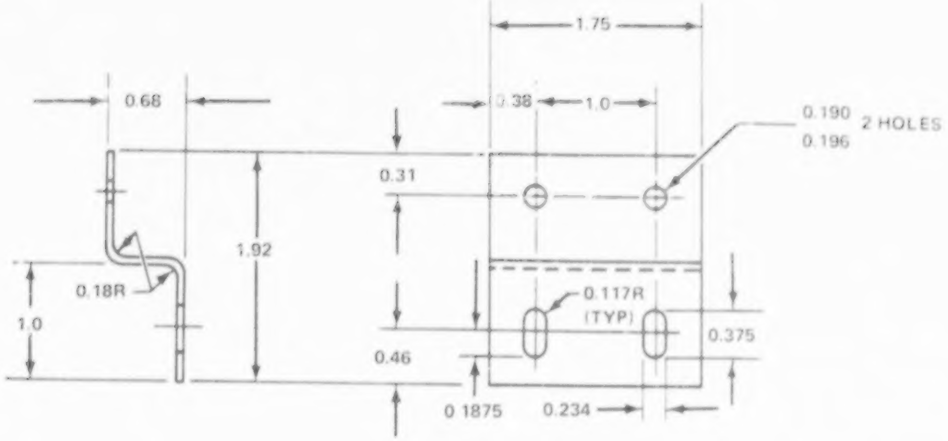
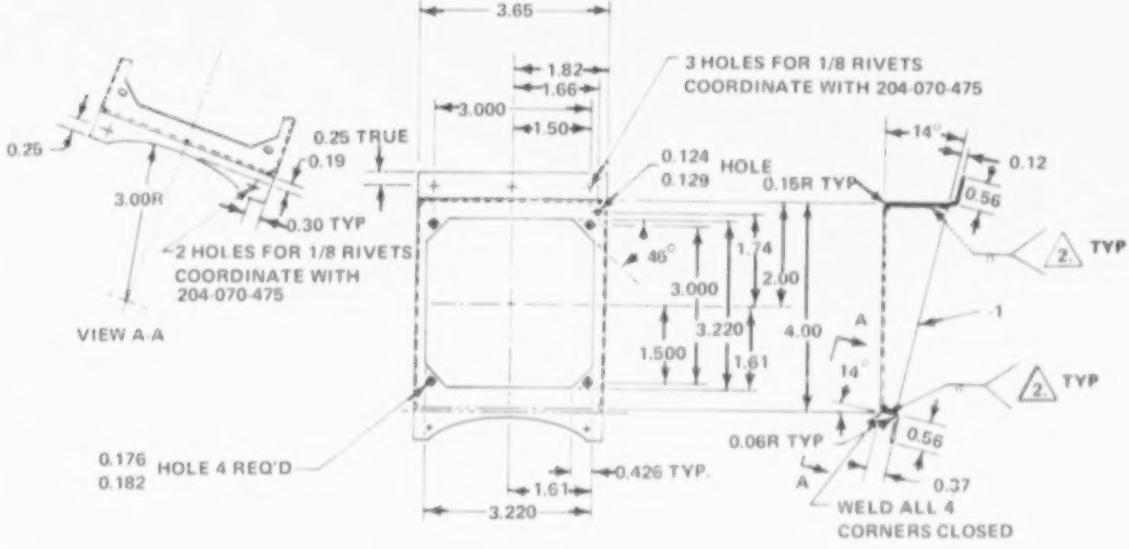

1.75
0.68
0.38
1.0
0.190
0.196
2 HOLES
0.31
1.92
0.18R
1.0
0.117R
(TYP)
0.375
0.46
0.1875
0.234

Figure D-96. **Part Number** 204-070.585-1 BRACKET, Lower Switch Bleed Air & Heating
Fabricate from: NSN 9535-00-640-2311
Material: 2024 AL ALY, Sheet Federal Specification, QQ-A-362.
**0.050 Inch Thick**


3.65
1.82
1.66
3.000
1.50
3 HOLES FOR 1/8 RIVETS
COORDINATE WITH 204-070-475
0.25
0.25 TRUE
0.19
3.00R
0.30 TYP
2 HOLES FOR 1/8 RIVETS
COORDINATE WITH
204-070-475
VIEW A-A
0.124
0.129
HOLE
0.15R TYP
14°
0.12
0.56
2 TYP
46°
1.74
2.00
3.000
3.220
4.00
1.500
1.61
A
14°
-1
2 TYP
0.06R TYP
0.56
A
0.37
WELD ALL 4
CORNERS CLOSED
0.176
0.182
HOLE 4 REQ'D
0.426 TYP.
1.61
3.220

NOTES:

2 WELD PER MIL-W-8604

**Figure D-97.** Part Number: 204-070-749-1 BRACKET INSTRUMENT
Fabricate from: NSN 9535-00-232-0501
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.050 Inch Thick

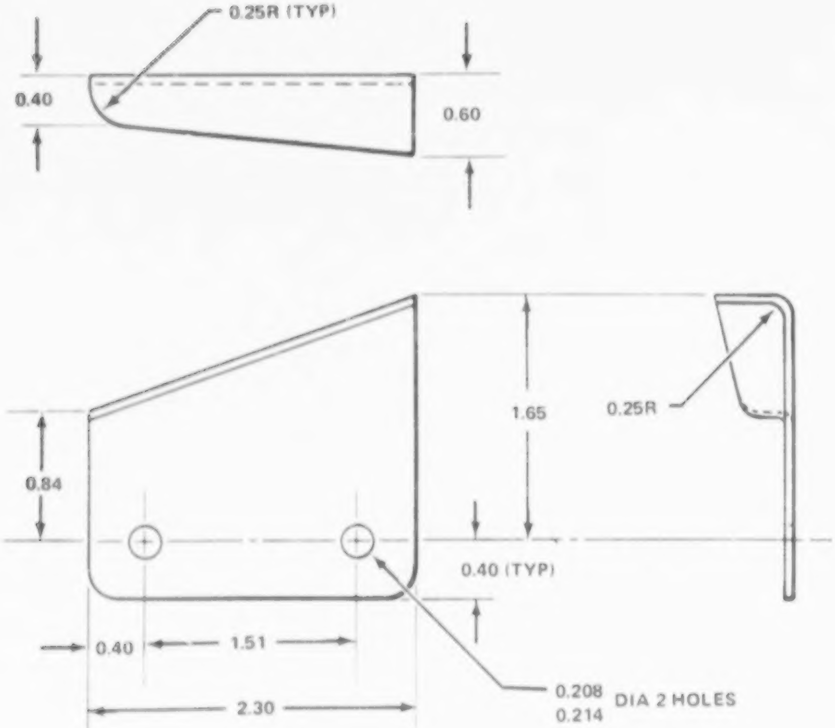
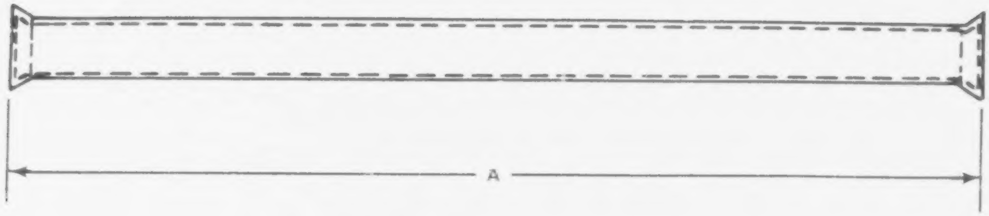

0.25R (TYP)
0.40
0.60
1.65
0.25R
0.84
0.40 (TYP)
0.40
1.51
2.30
0.208
0.214
DIA 2 HOLES

**Figure D-98.**

| | |
|---|---|
| Part Number | 204-071-539-3 STOP, Emergency Jettison |
| Fabricate from: | NSN 9535-00-232-0378 |
| Material: | 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.063 Inch Thick |



| PART NUMBER | FABRICATE FROM NSN | DIM A | OD | NOTES |
|---|---|---|---|---|
| 204-071-577-1 | 4710-00-278-8727 | 8.50 | 5/16 | 2, 3, 4 |
| 205-072-222-1 | 4710-00-279-0910 | 15.25 | 5/8 | 2, 3, 4 |

NOTES:

1. DOUBLE FLARE ENDS OF TUBE PER TM 55-405-7 MANUAL.
2. SINGLE FLARE ENDS OF TUBE PER TM 55-405-7 MANUAL.
3. APPLY A CHEMICAL FILM NSN 8030-00-829-0376 PER TM 55-405-3 MANUAL.
4. APPLY ONE COAT ZINC CHROMATE PRIMER NSN 8010-00-899-8825 IMMEDIATELY FOLLOWING APPLICATION OF CHEMICAL FILM ALLOWING TIME FOR DRYING BETWEEN COATS.

Figure D-99.

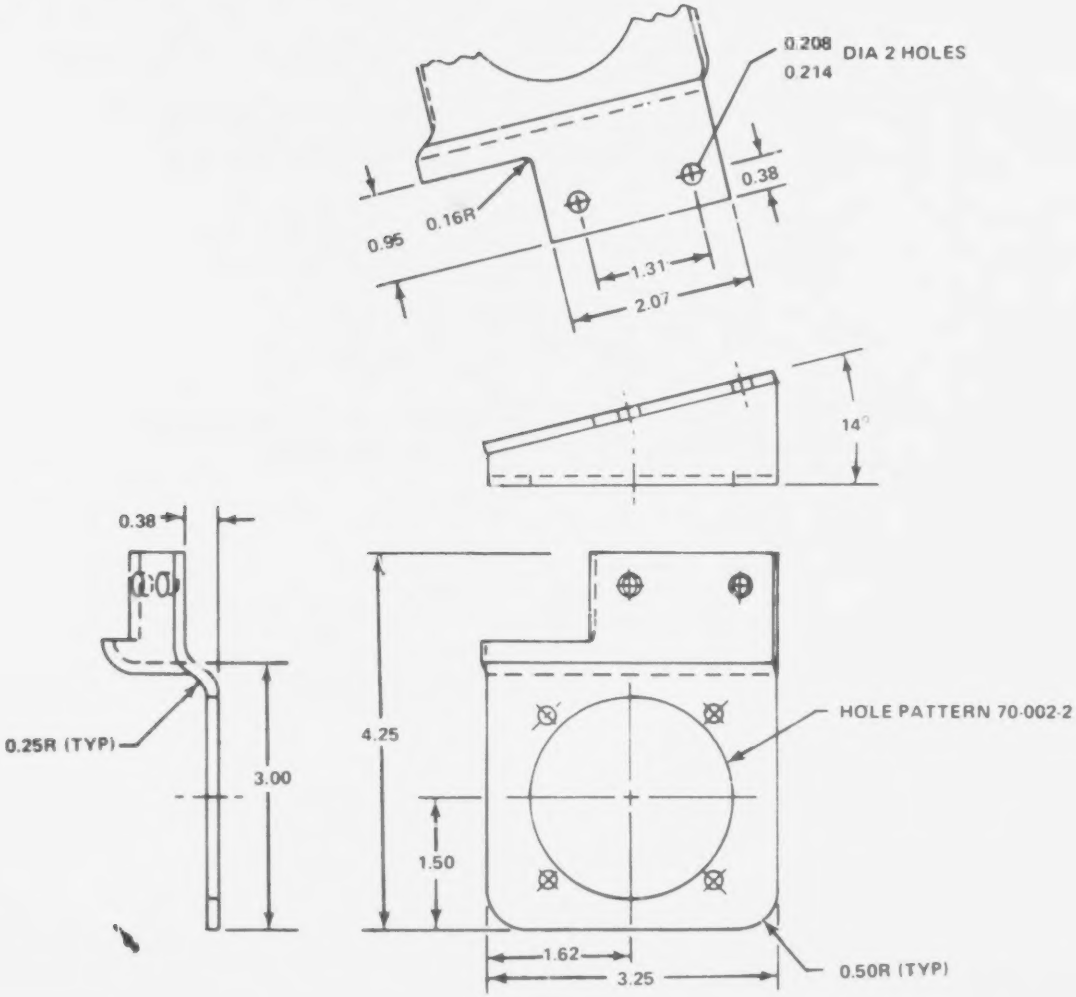
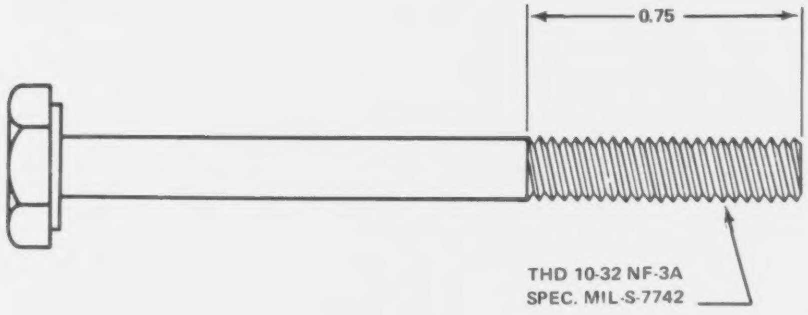

0.208
0.214
DIA 2 HOLES
0.38
0.95
0.16R
1.31
2.07
14°
0.38
0.25R (TYP)
3.00
4.25
HOLE PATTERN 70-002-2
1.50
1.62
3.25
0.50R (TYP)

**Figure D-100.** Part Number 204-072-054-1, BRACKET, Compass
Fabricate from: NSN 9535-00-232-0418
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.125 Inch Thick


0.75
THD 10-32 NF-3A
SPEC. MIL-S-7742

NOTE: MAKE FROM STD PART
NO. AN3H20A

Figure D-101. Part Number 204-072-083-1 BOLT, Cargo Mirror
Fabricate from: NSN 5306-00-182-2009
Material:

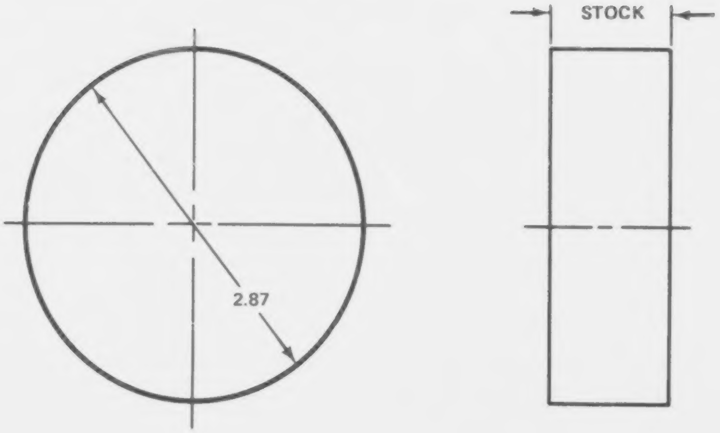
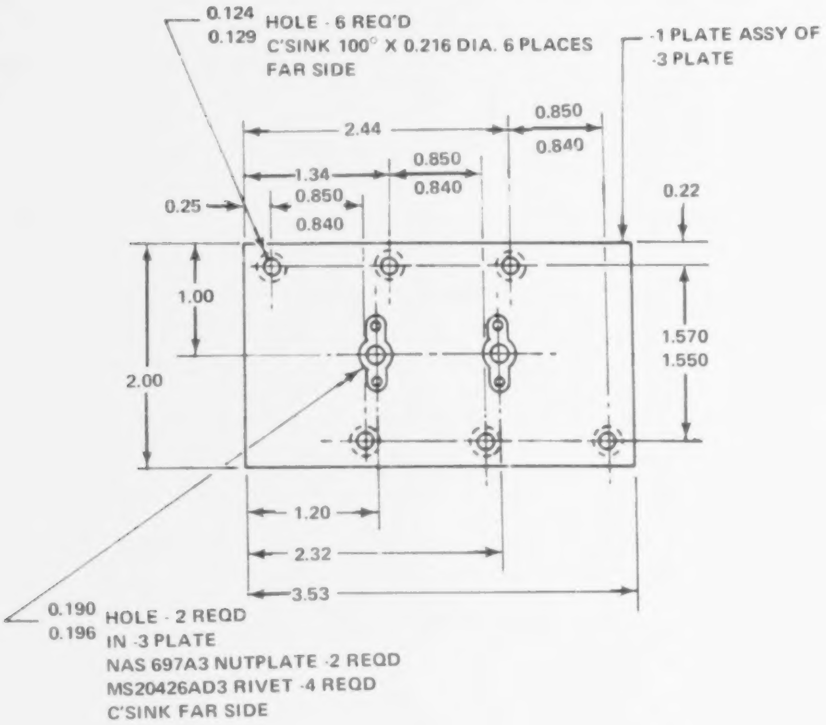


Figure D-102. Part Number 204-075-160-1 PAD, Battery Sump Jar
Fabricate from: NSN 8305-00-191-1101
Material: Felt Sheet, Grey Non-woven, Federal Specification C-F-2026
Type 1, 0.50 Inch Thick, 1.0 Inch Wide


0.124
0.129
HOLE - 6 REQ'D
C'SINK 100° X 0.216 DIA. 6 PLACES
FAR SIDE
-1 PLATE ASSY OF
-3 PLATE
2.44
0.850
0.840
1.34
0.850
0.840
0.25
0.850
0.840
0.22
1.00
2.00
1.570
1.550
1.20
2.32
3.53
0.190
0.196
HOLE - 2 REQD
IN -3 PLATE
NAS 697A3 NUTPLATE -2 REQD
MS20426AD3 RIVET -4 REQD
C'SINK FAR SIDE

ZINC CHROMATE FINISH

Figure D-103. Part Number: 204-075-520-1, PLATE, Assy Mounting
Fabricate from: NSN 9535-00-167-2280
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.040 Inch Thick

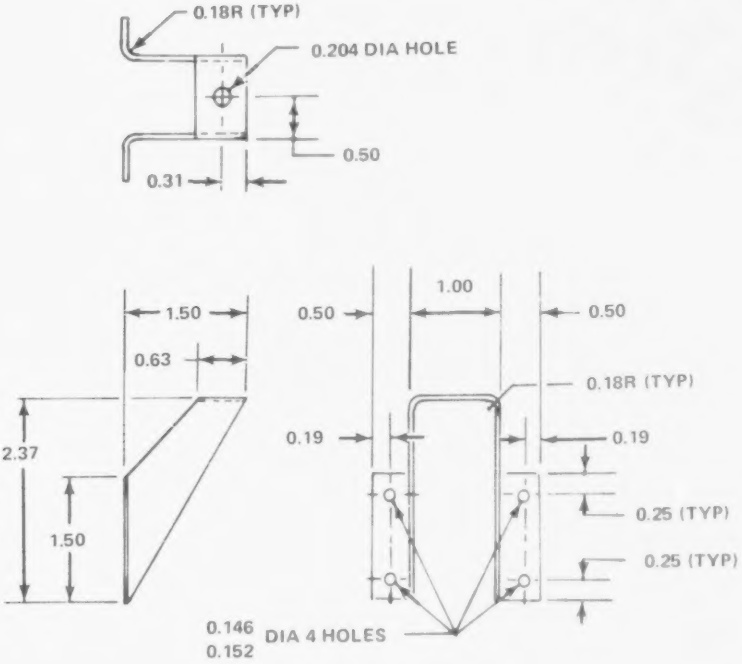

0.18R (TYP)
0.204 DIA HOLE
0.50
0.31
1.50
0.63
2.37
1.50
1.00
0.50
0.50
0.18R (TYP)
0.19
0.19
0.25 (TYP)
0.25 (TYP)
0.146
0.152
DIA 4 HOLES

Figure D-104. **Part Number** **204-076-032-3 BRACKET**
**Fabricate from:** **NSN 9535-00-640-2311**
**Material:** **2024 AL ALY Sheet, Federal Specification QQ-A-362, 0.050 Inch Thick**

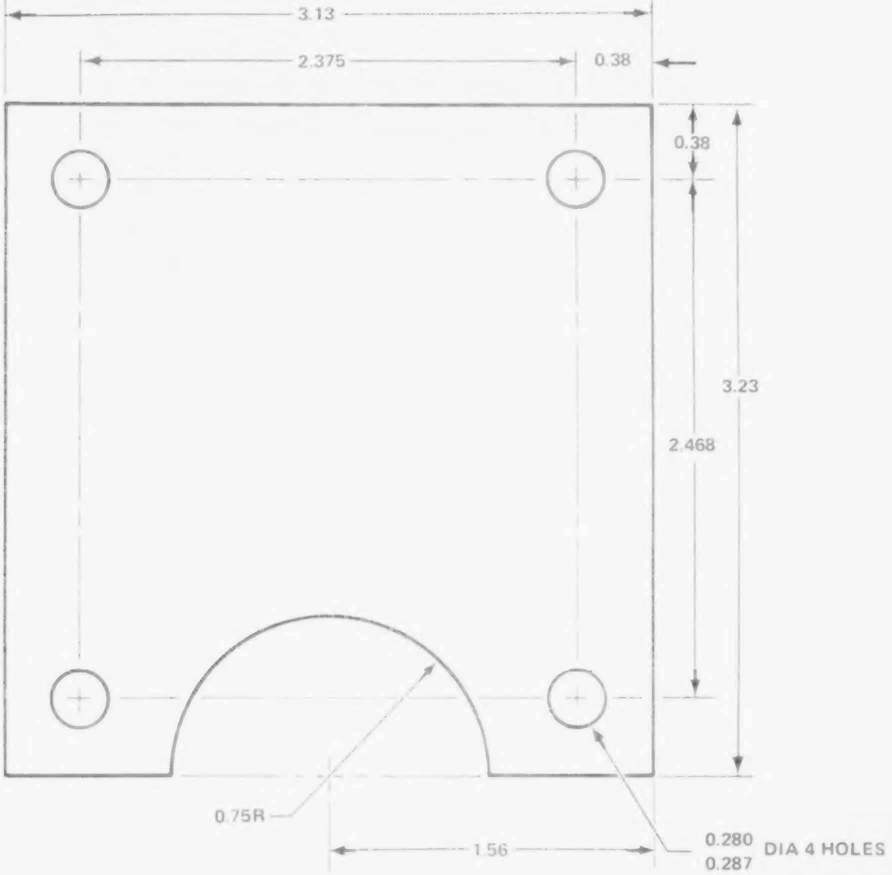

3.13
2.375
0.38
0.38
3.23
2.468
0.75R
1.56
0.280
0.287
DIA 4 HOLES

**Figure D-105.** Part Number 205-001-104-1, SHIM, Bellcrank Support Collective Controls
Fabricate from: NSN 9535-00-167-2280
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.040 Inch Thick

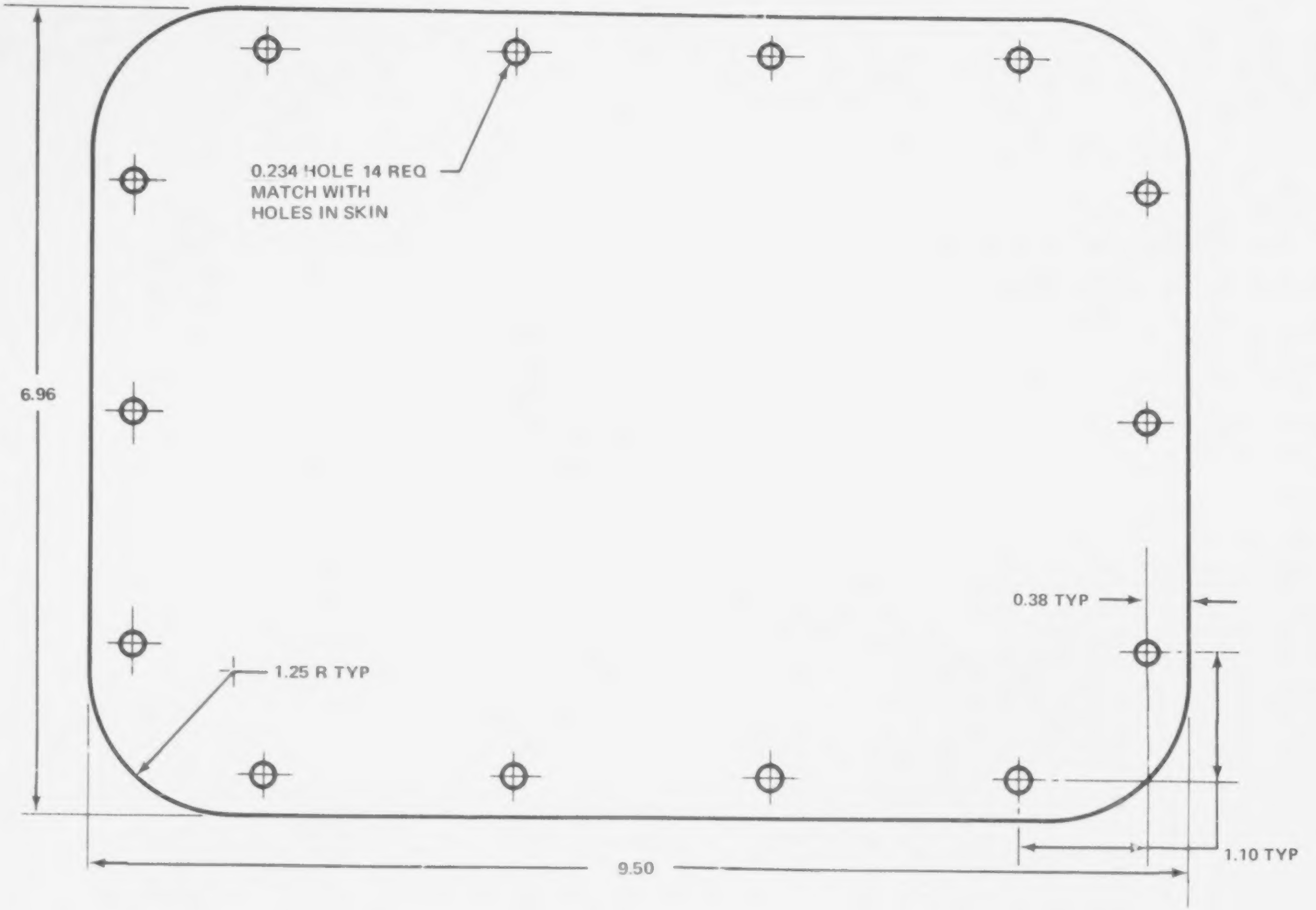

0.234 HOLE 14 REQ
MATCH WITH
HOLES IN SKIN
6.96
1.25 R TYP
0.38 TYP
1.10 TYP
9.50

Figure D-106. **Part Number** 205-030-007-77 DOOR
**Fabricate from:** NSN 9535-00-167-2279
**Material:** 2024 AL ALY, Sheet, Federal Specification QQ-A-250/5 0.032 Inch Thick

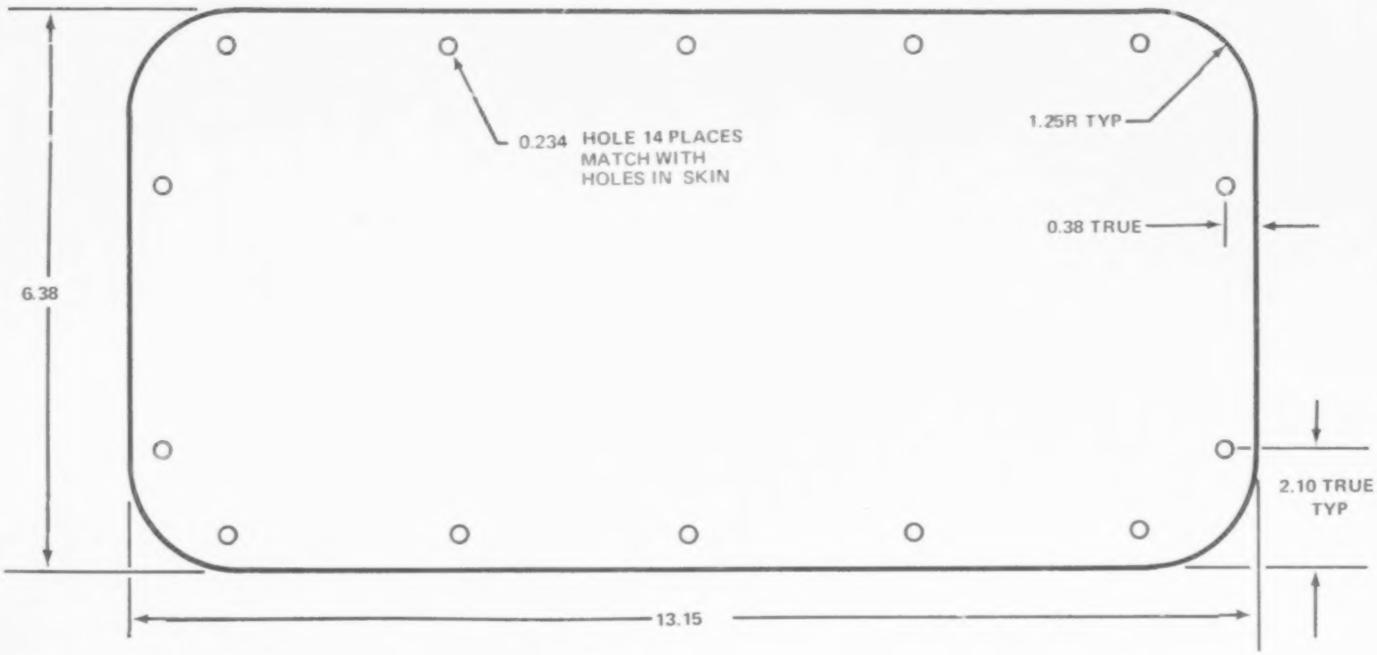

0.234 HOLE 14 PLACES
MATCH WITH
HOLES IN SKIN
1.25R TYP
0.38 TRUE
2.10 TRUE
TYP
6.38
13.15

**Figure D-107.**

| | |
|---|---|
| Part Number | 205-030-007-97, DOOR, Left Hand (Shown)<br>205-030-007-98, DOOR, Right Hand, (Opp) |
| Fabricate from: | NSN 9535-00-167-2279 |
| Material: | 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.032 Inch Thick |

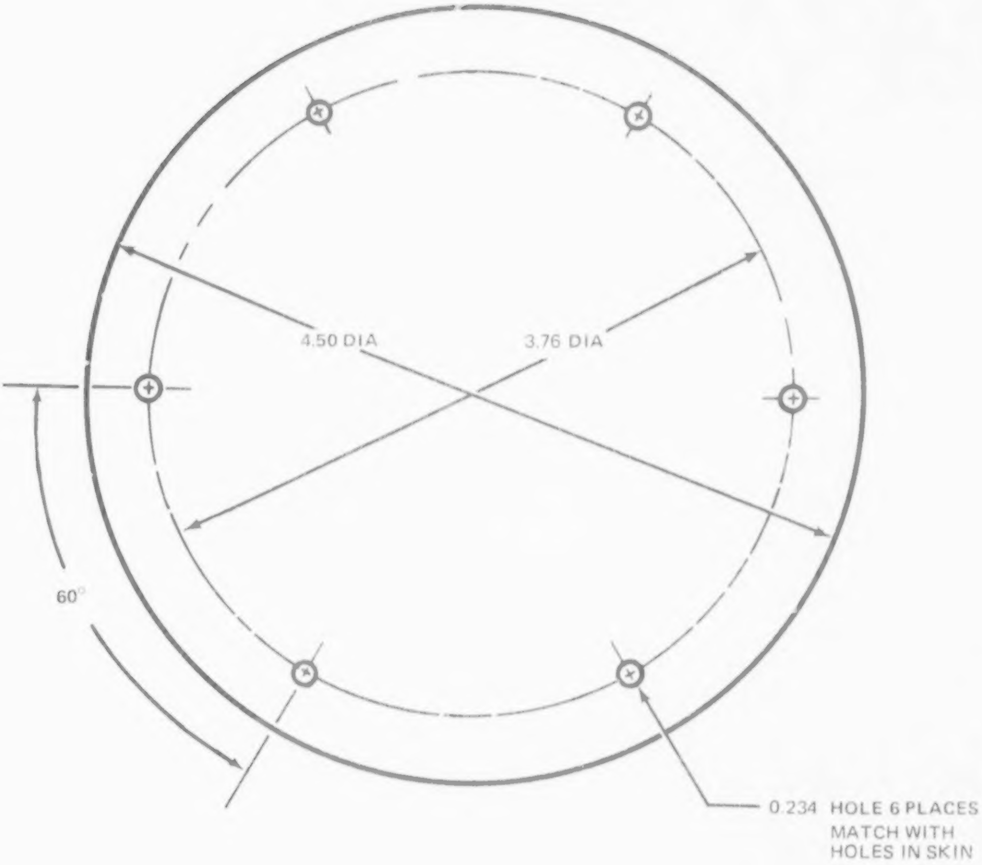
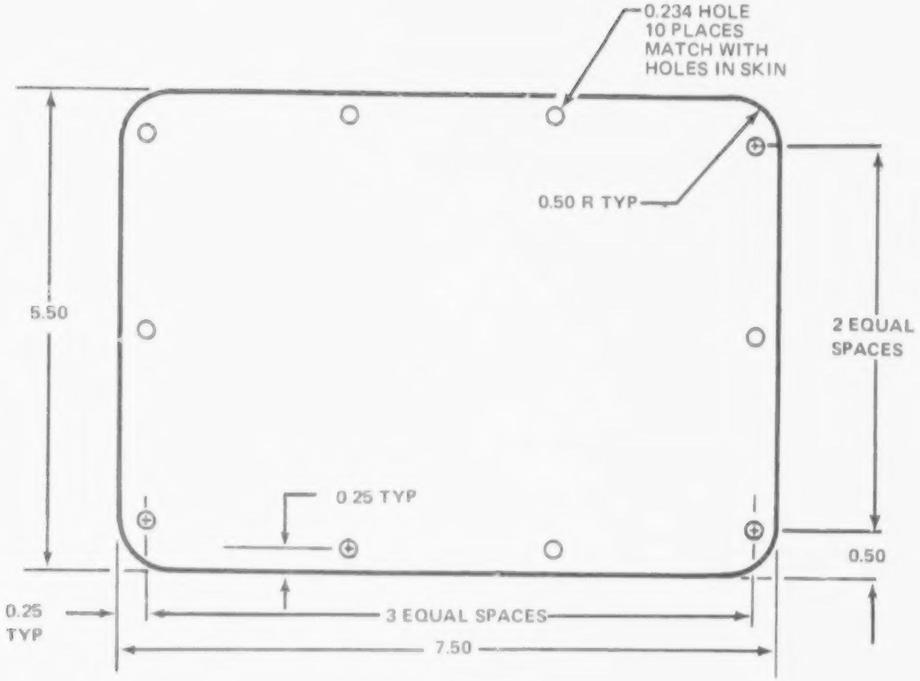

4.50 DIA
3.76 DIA
60°
0.234 HOLE 6 PLACES
MATCH WITH
HOLES IN SKIN

**Figure D-108.**

| | |
|---|---|
| Part Number | 205-030-007-99, DOOR |
| Fabricate from: | NSN 9535-00-167-2278 |
| Material: | 2024 AL ALY Sheet Federal Specification QQ-A-250/5, 0.025 Inch Thick |


0.234 HOLE
10 PLACES
MATCH WITH
HOLES IN SKIN
0.50 R TYP
5.50
2 EQUAL
SPACES
0.25 TYP
0.50
0.25
TYP
3 EQUAL SPACES
7.50

| Figure D-109 | Part Number | 205-030-007-107, DOOR |
|---|---|---|
| | Fabricate from: | NSN 9535-00-167-2279 |
| | Material: | 2024 AL ALY Federal Specification QQ-A-250/5, 0.032 Inch Thick |

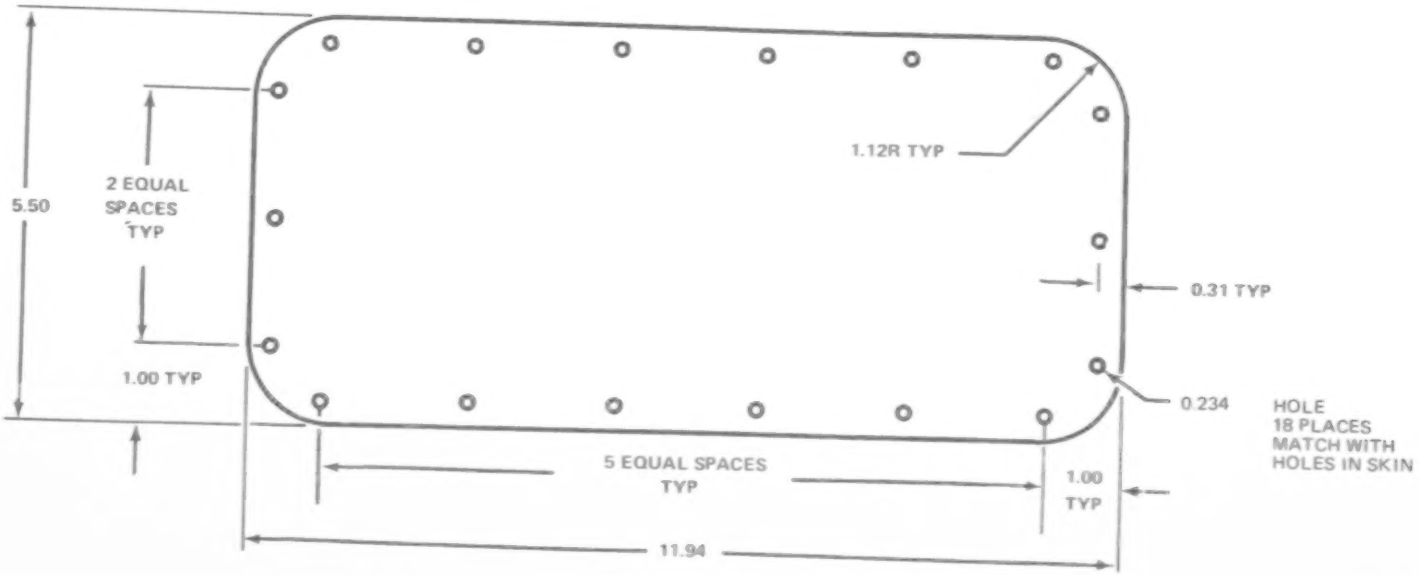

5.50
2 EQUAL SPACES TYP
1.00 TYP
1.12R TYP
0.31 TYP
0.234
HOLE
18 PLACES
MATCH WITH
HOLES IN SKIN
5 EQUAL SPACES TYP
1.00 TYP
11.94

**Figure D-110.** Part Number 205-030-007-109, DOOR
Fabricate from: NSN 9535-00-167-2279
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.032 Inch Thick

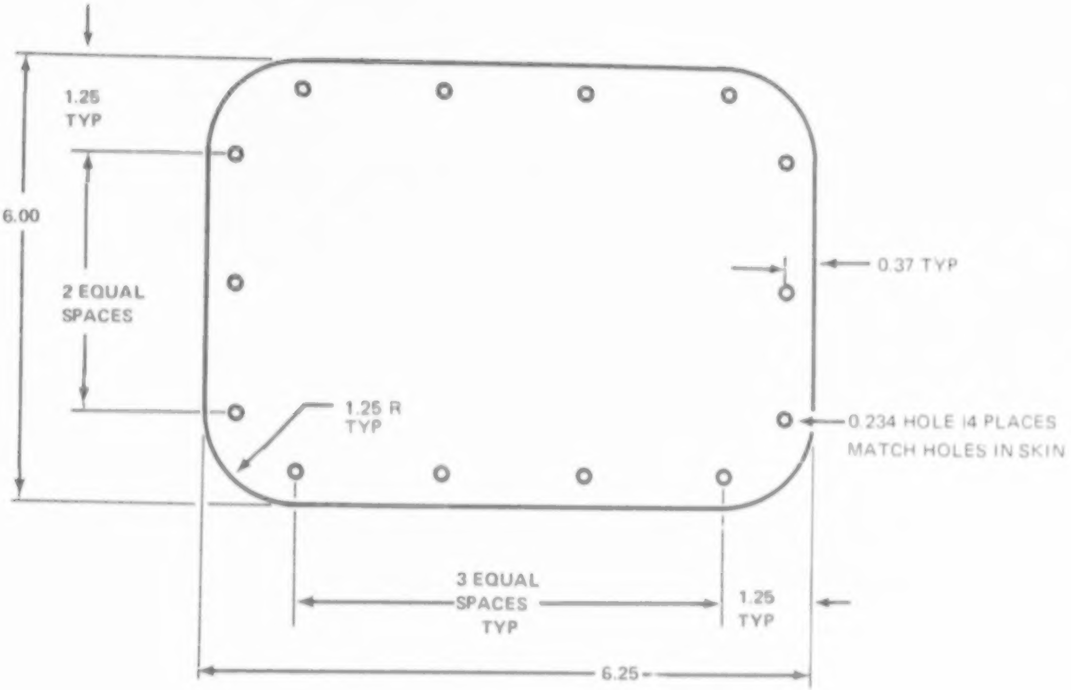

1.25
TYP
6.00
2 EQUAL
SPACES
1.25 R
TYP
0.37 TYP
0.234 HOLE 14 PLACES
MATCH HOLES IN SKIN
3 EQUAL
SPACES
TYP
1.25
TYP
6.25

Figure D-111. Part Number 205-030-007-111 DOOR
Fabricate from: NSN 9535-00-167-2279
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.032 Inch Thick

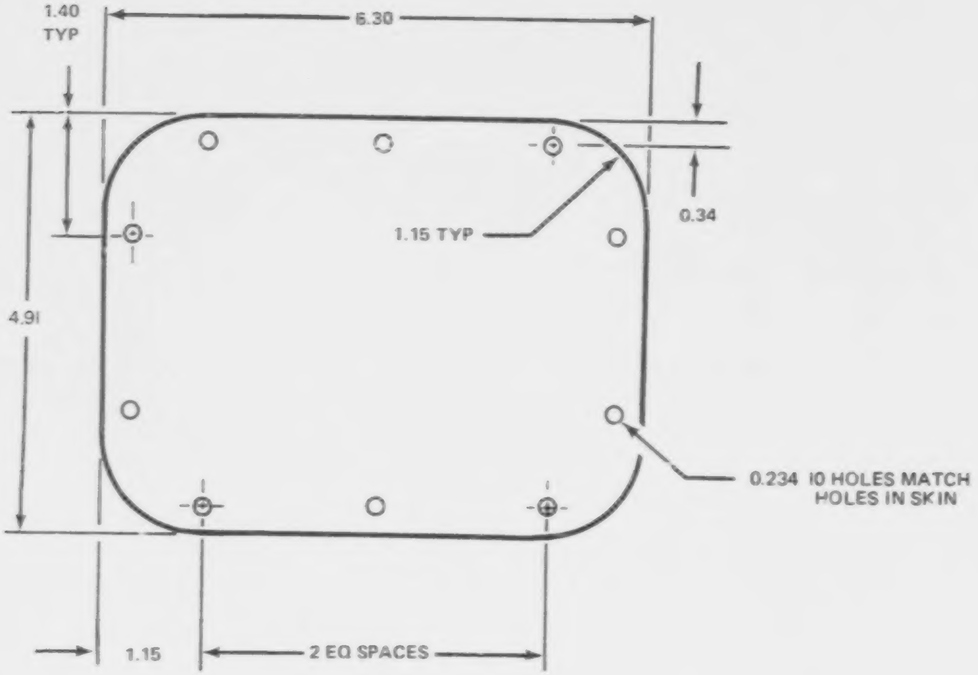
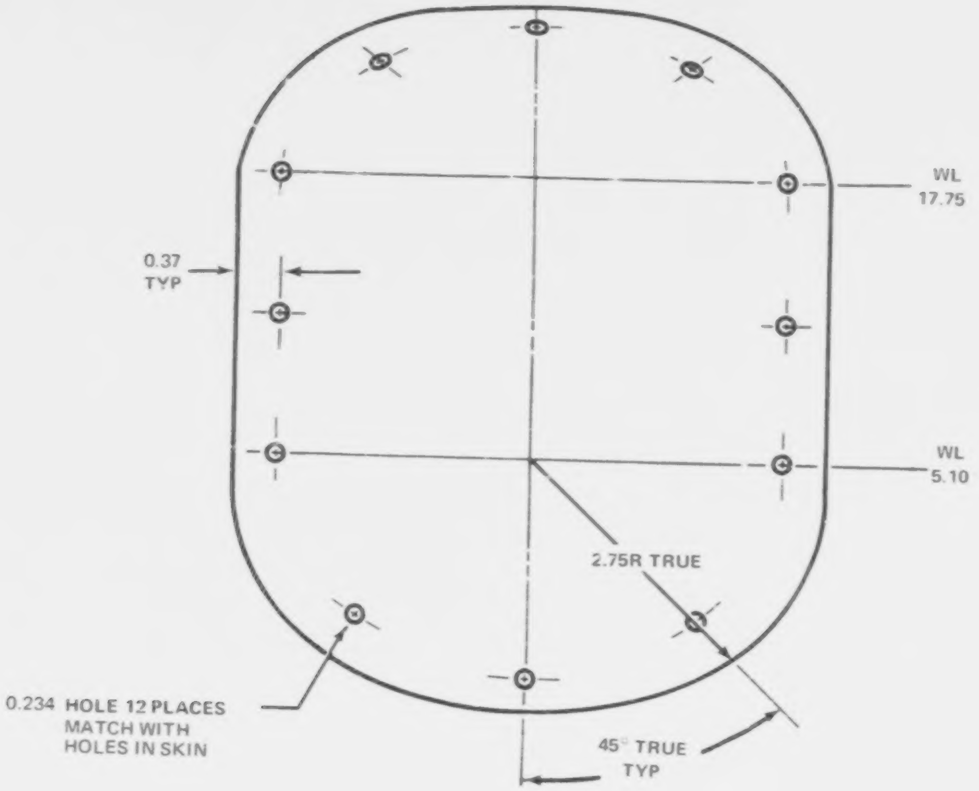

1.40
TYP
6.30
0.34
1.15 TYP
4.91
0.234 10 HOLES MATCH HOLES IN SKIN
1.15
2 EQ SPACES

**Figure D-112.** Part Number 205-030-007-113, DOOR
Fabricate from: NSN 9535-00-167-2279
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.032 Inch Thick


WL
17.75
0.37
TYP
WL
5.10
2.75R TRUE
0.234 HOLE 12 PLACES
MATCH WITH
HOLES IN SKIN
45° TRUE
TYP

| | | |
|---|---|---|
| Figure D-113. | Part Number | 205-030-007-131, DOOR, Left Hand (Shown)<br>DOOR, Right Hand (Opp) |
| | Fabricate from: | NSN 9535-00-167-2278 |
| | Material: | 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.025 Inch Thick |

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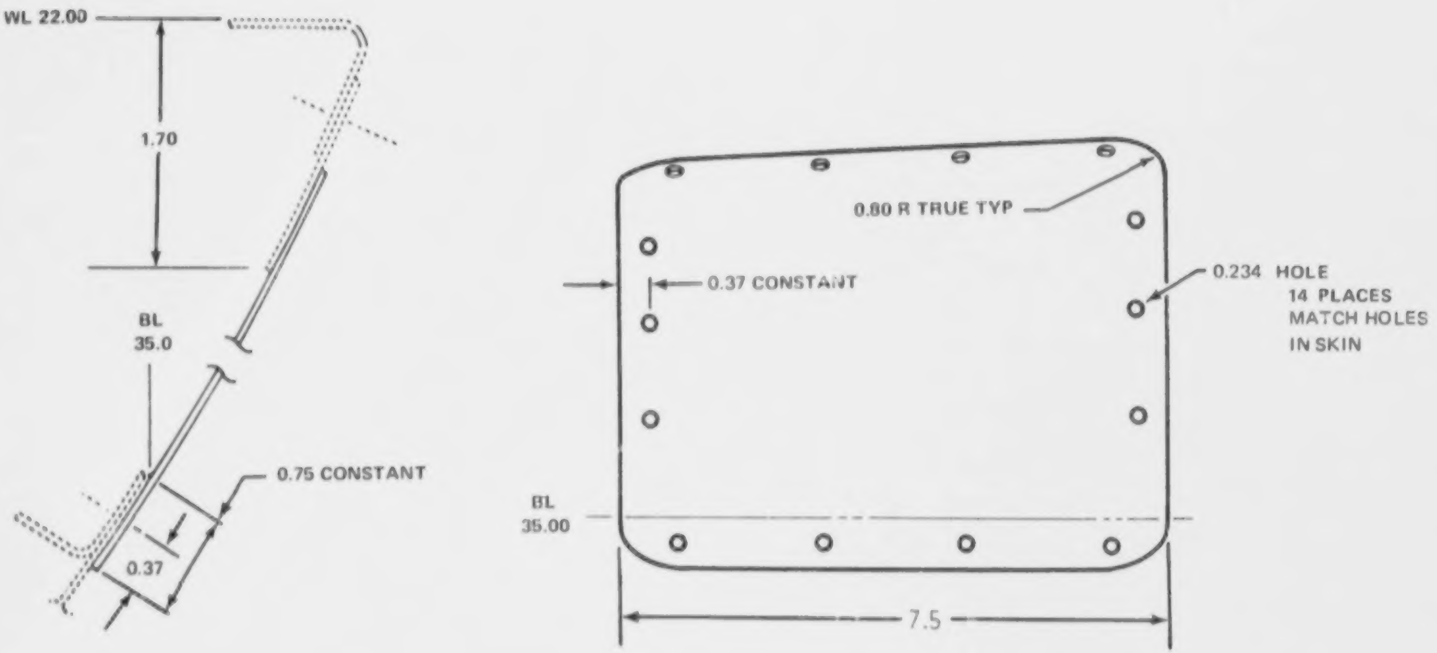

WL 22.00
1.70
BL
35.0
0.75 CONSTANT
0.37
0.80 R TRUE TYP
0.37 CONSTANT
0.234 HOLE
14 PLACES
MATCH HOLES
IN SKIN
BL
35.00
7.5

**Figure D-114.**

| | |
|---|---|
| Part Number | 205-030-007-133 DOOR, Left Hand (Shown)<br>205-030-007-134 DOOR, Right Hand (Opp) |
| Fabricate from: | NSN 9535-00-167-2278 |
| Material: | 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.025 Inch Thick |

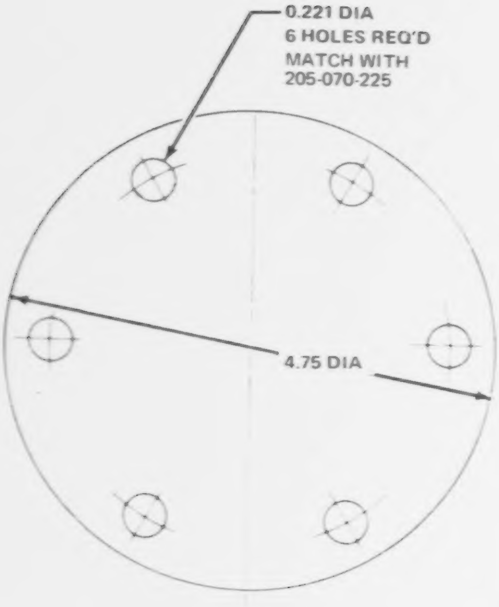

0.221 DIA
6 HOLES REQ'D
MATCH WITH
205-070-225
4.75 DIA

Figure D-115.

| | |
|---|---|
| Part Number | 205-030-007-155 COVER |
| Fabricate from: | NSN 9535-00-167-2278 |
| Material: | 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.025 Inch Thick |

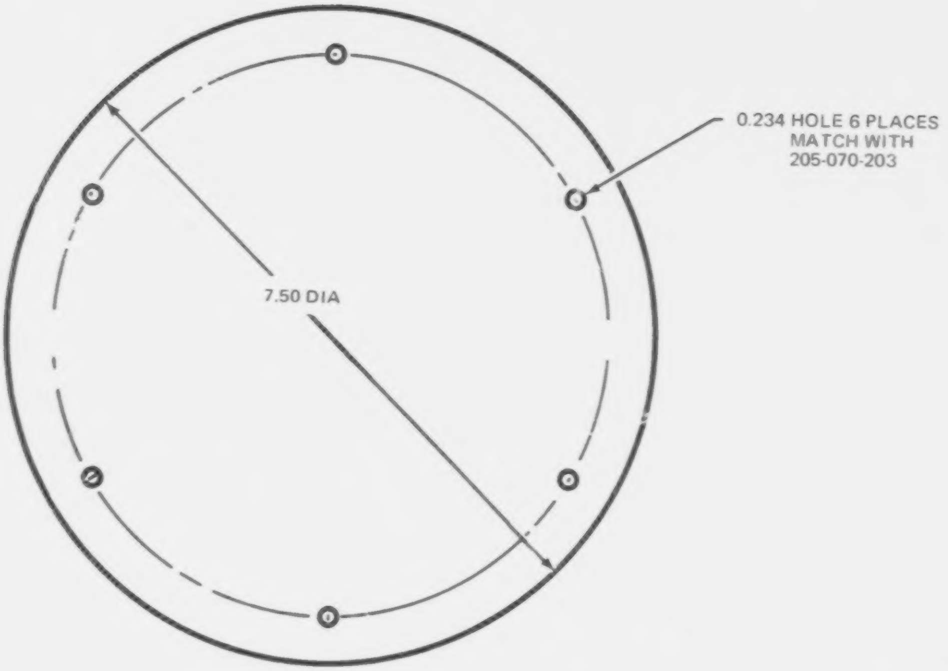

0.234 HOLE 6 PLACES
MATCH WITH
205-070-203
7.50 DIA

**Figure D-116.**

| | |
|---|---|
| Part Number | 205-030-007-157, COVER |
| Fabricate from: | NSN 9535-00-167-2278 |
| Material: | 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.025 Inch Thick |

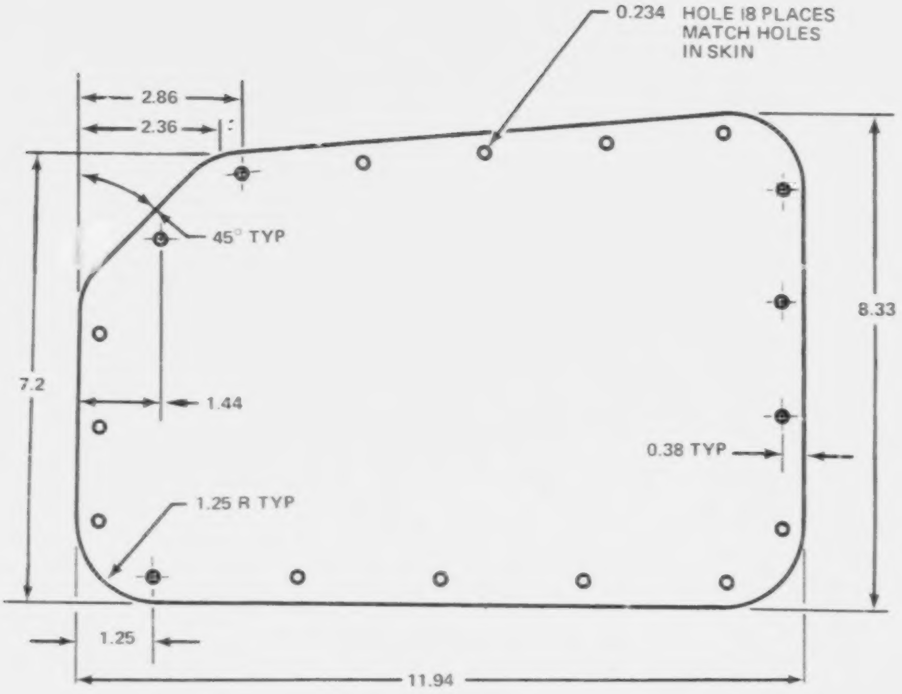
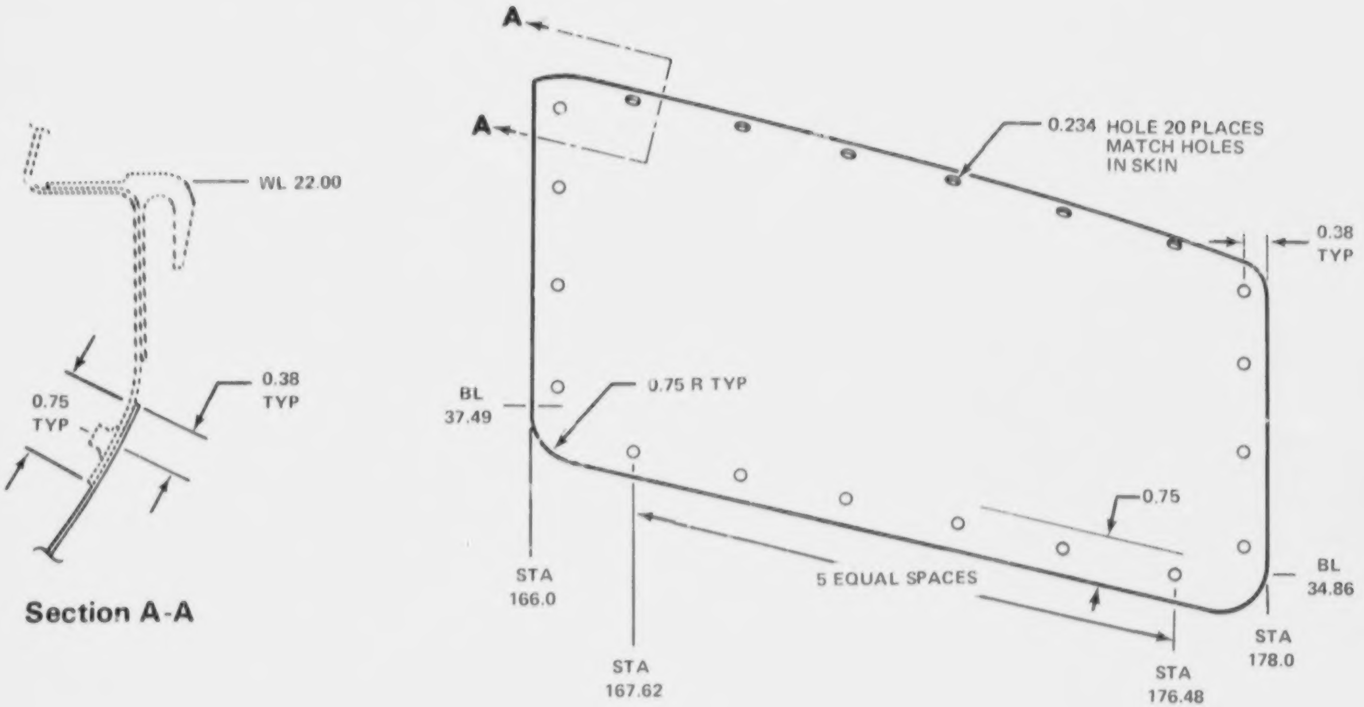

0.234 HOLE I8 PLACES MATCH HOLES IN SKIN
2.86
2.36
45° TYP
7.2
1.44
8.33
0.38 TYP
1.25 R TYP
1.25
11.94

**Figure D-117.** Part Number 205-030-007-159, DOOR
Fabricate from: NSN 9535-00-167-2279
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.032 Inch Thick


WL 22.00
0.38
TYP
0.75
TYP
A
A
0.234 HOLE 20 PLACES
MATCH HOLES
IN SKIN
0.38
TYP
BL
37.49
0.75 R TYP
0.75
BL
34.86
STA
166.0
5 EQUAL SPACES
STA
178.0
STA
167.62
STA
176.48

Section A-A

**Figure D-118.** Part Number 205-030-007-179, DOOR, Left Hand Shown
205-030-007-180, DOOR, Right Hand Opp.
Fabricate from: NSN 9535-00-167-2278
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.025 Inch Thick

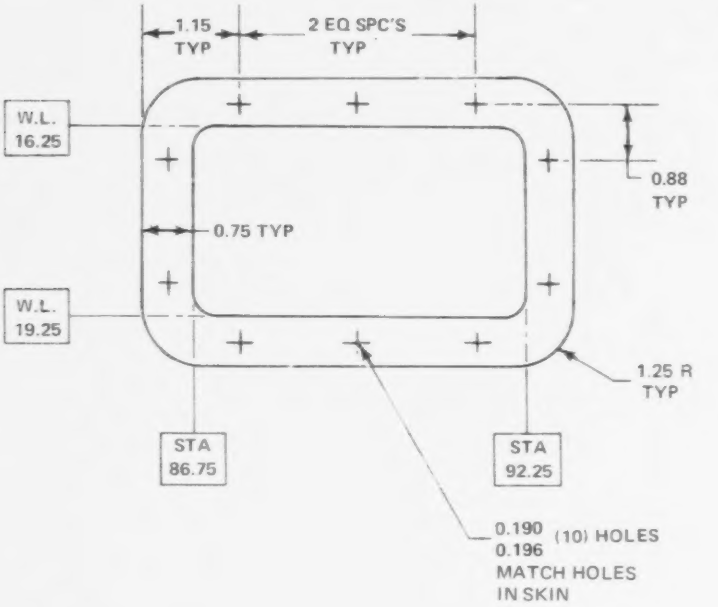

1.15
TYP
2 EQ SPC'S
TYP
W.L.
16.25
0.88
TYP
0.75 TYP
W.L.
19.25
1.25 R
TYP
STA
86.75
STA
92.25
0.190
0.196
(10) HOLES
MATCH HOLES
IN SKIN

Figure D-119. Part Number: **205-030-007-231 DOOR**
Fabricate from: **NSN 9535-00-167-2278**
Material: **2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.025 Inch Thick**

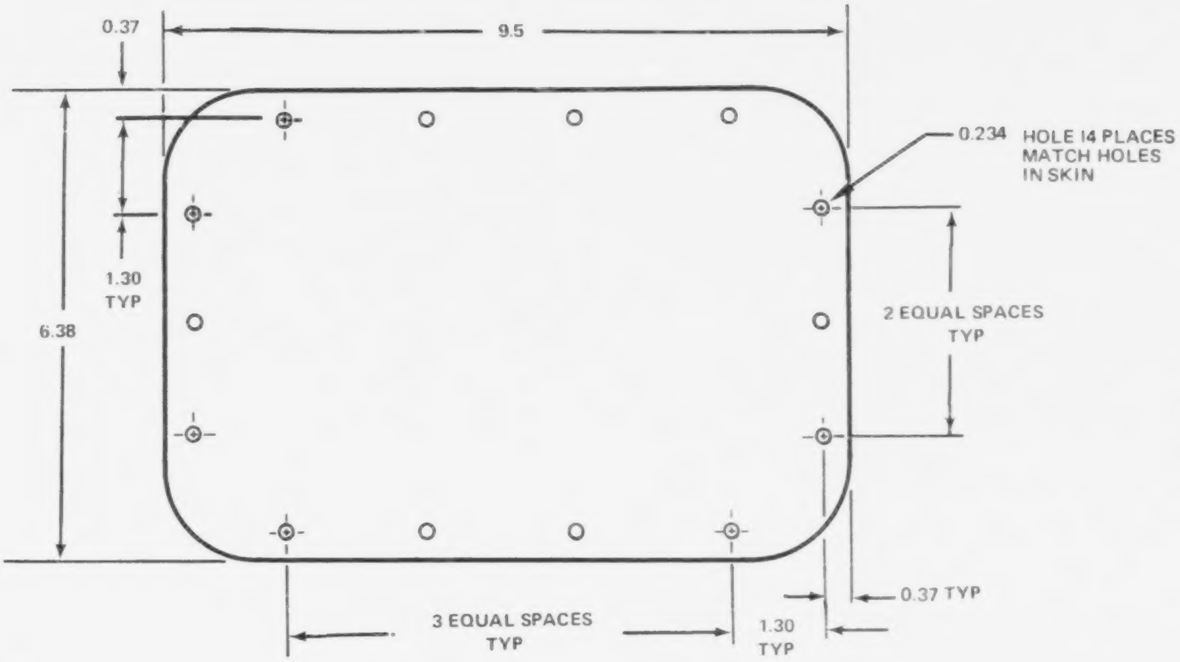

0.37
9.5
0.234 HOLE 14 PLACES MATCH HOLES IN SKIN
1.30 TYP
6.38
2 EQUAL SPACES TYP
0.37 TYP
3 EQUAL SPACES TYP
1.30 TYP

**Figure D-120.** Part Number 205-030-007-233, DOOR
Fabricate from: NSN 9535-00-167-2278
Material: 2024 AL ALY Sheet, Federal Specification, QQ-A-250/5, 0.025 Inch Thick

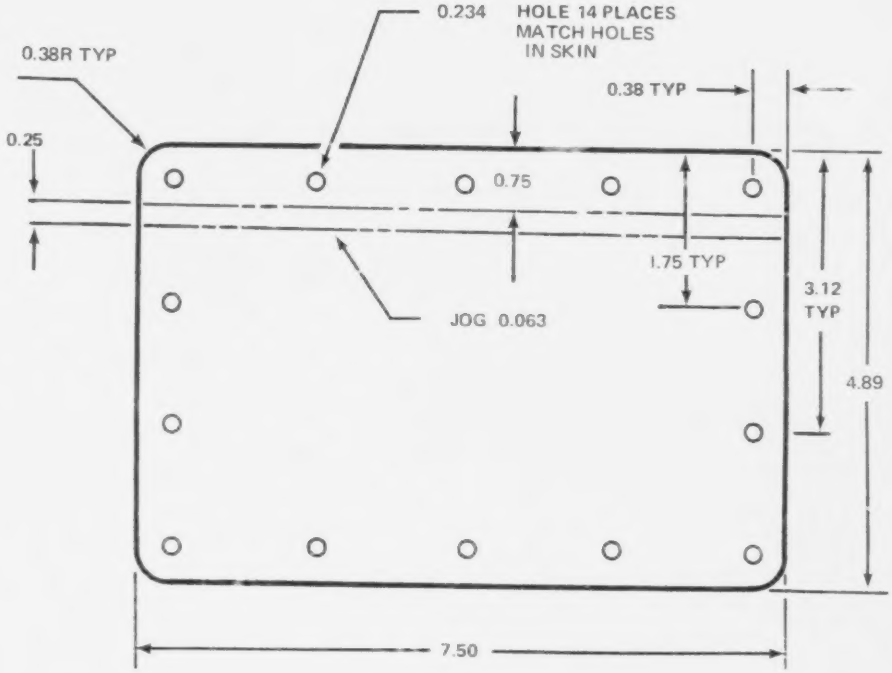

0.234 HOLE 14 PLACES
MATCH HOLES
IN SKIN
0.38R TYP
0.38 TYP
0.25
0.75
1.75 TYP
3.12
TYP
4.89
JOG 0.063
7.50

Figure D-121. Part Number 205-030-007-245, DOOR, Left Hand (Shown)
205-030-007-246, DOOR, Right Hand (Opp)
Fabricate from: NSN 9535-00-167-2279
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.032 Inch Thick

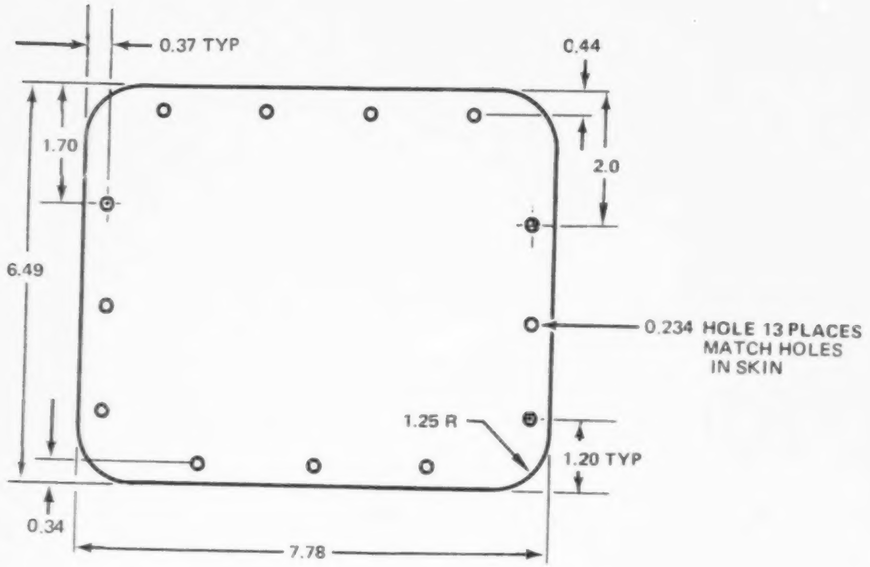

0.37 TYP
0.44
1.70
2.0
6.49
0.234 HOLE 13 PLACES
MATCH HOLES
IN SKIN
1.25 R
1.20 TYP
0.34
7.78

Figure D-122.

| | |
|---|---|
| Part Number | 205-030-007-271, DOOR, Left Hand (Shn)<br>205-030-007-272, DOOR, Right Hand (Opp) |
| Fabricate from: | NSN 9535-00-167-2279 |
| Material: | 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.032 Inch Thick |

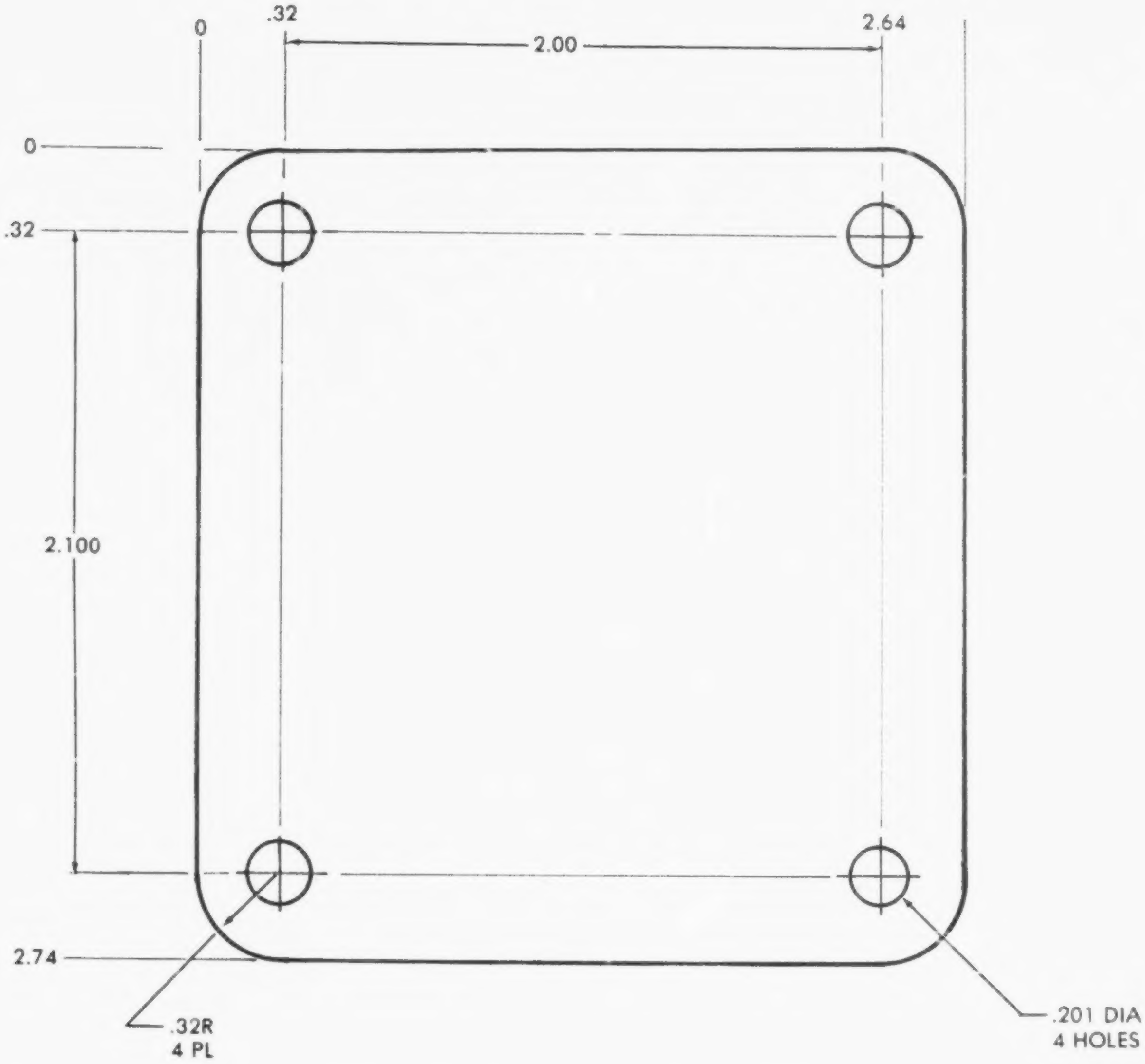

0
.32
2.00
2.64
0
.32
2.100
2.74
.32R
4 PL
.201 DIA
4 HOLES

Figure D-123. Plate, Cover-Rearward PN 1951-1-3109
Fabricate from: NSN 9535-00-084-4448
Material: .063 THK AL ALY, SH6061-T6, QQ-A-250/11

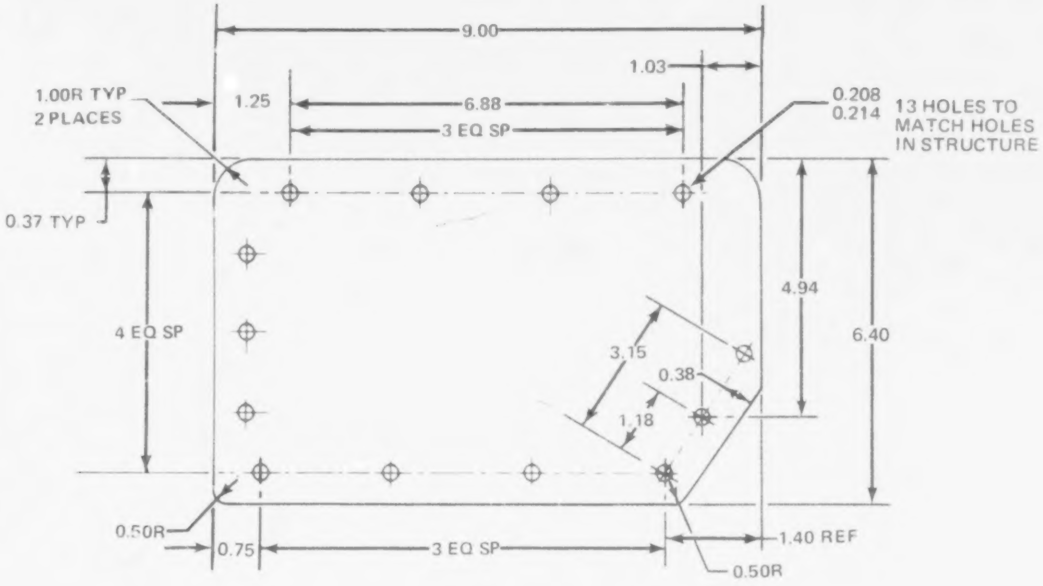

9.00
1.03
1.00R TYP
2 PLACES
1.25
6.88
3 EQ SP
0.208
0.214
13 HOLES TO
MATCH HOLES
IN STRUCTURE
0.37 TYP
4 EQ SP
4.94
6.40
3.15
0.38
1.18
0.50R
0.75
3 EQ SP
1.40 REF
0.50R

**Figure D-124.** Part Number 205-030-007-341 DOOR
Fabricate from: NSN 9535-00-167-2279
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.032 Inch Thick

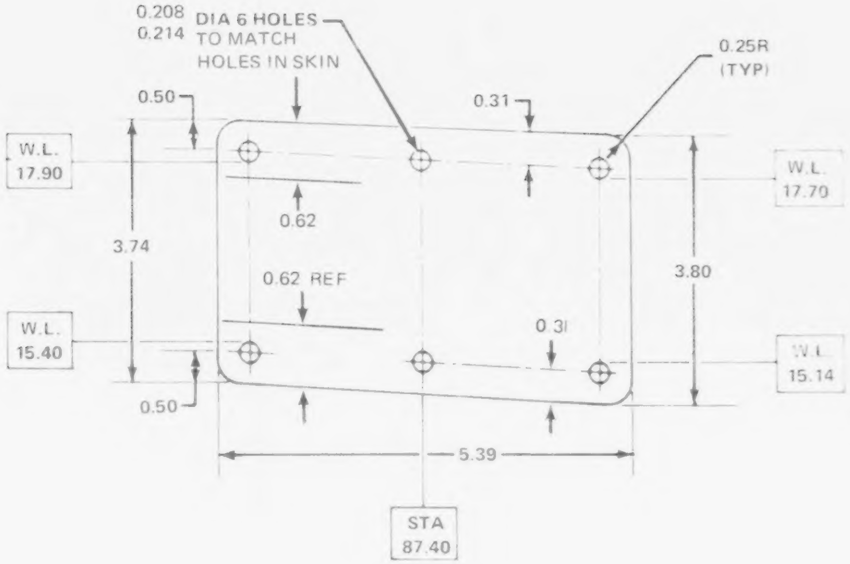
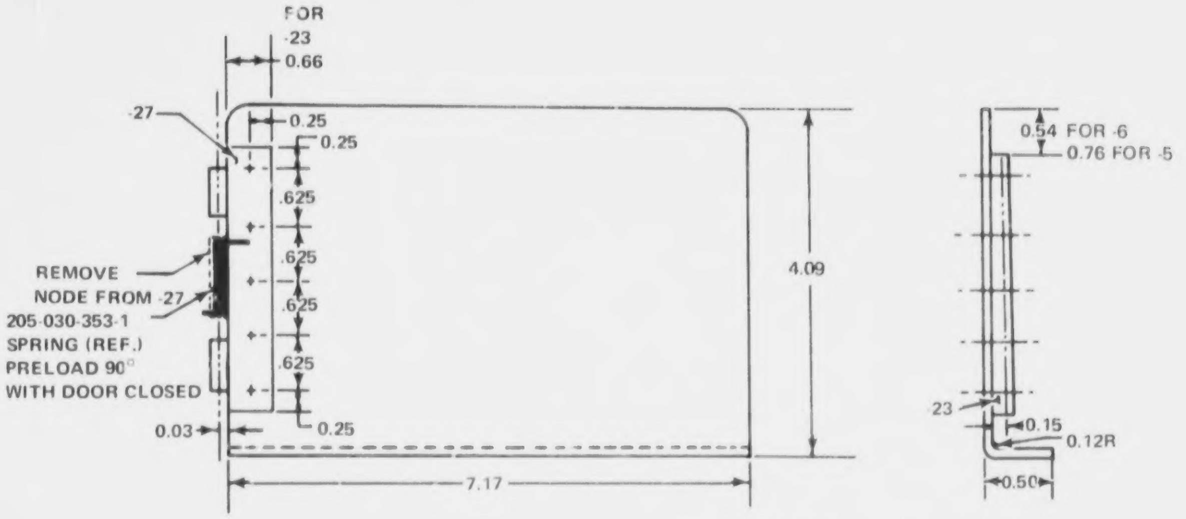
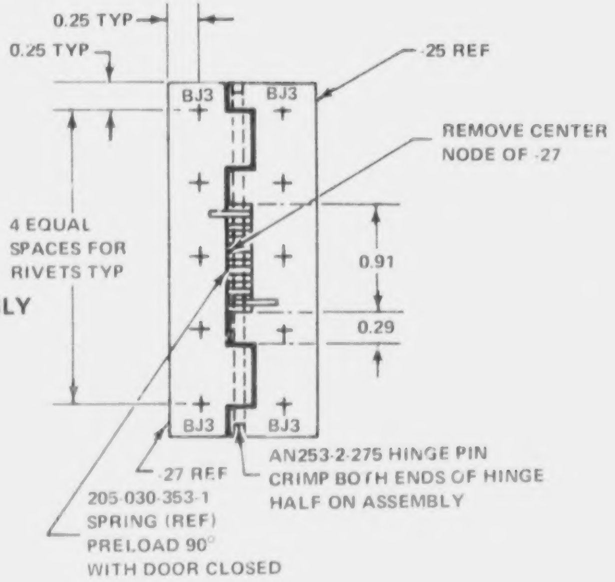

0.208
0.214 DIA 6 HOLES TO MATCH HOLES IN SKIN
0.25R (TYP)
0.50
0.31
W.L. 17.90
W.L. 17.70
0.62
3.74
0.62 REF
3.80
W.L. 15.40
0.31
W.L. 15.14
0.50
5.39
STA 87.40

**Figure D-125.** Part Number 205-030-007-351 DOOR
Fabricate from: NSN 9535-00-167-2279
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.032 Inch Thick


FOR
-23
0.66
-27
0.25
0.25
.625
.625
.625
.625
0.25
REMOVE
NODE FROM -27
205-030-353-1
SPRING (REF.)
PRELOAD 90°
WITH DOOR CLOSED
0.03
7.17
4.09
0.54 FOR -6
0.76 FOR -5
23
0.15
0.12R
0.50


0.25 TYP
0.25 TYP
-25 REF
BJ3
BJ3
BJ3
BJ3
REMOVE CENTER
NODE OF -27
4 EQUAL
SPACES FOR
RIVETS TYP
0.91
0.29
-27 REF
205-030-353-1
SPRING (REF)
PRELOAD 90°
WITH DOOR CLOSED
AN253-2-275 HINGE PIN
CRIMP BOTH ENDS OF HINGE
HALF ON ASSEMBLY

| | | |
|---|---|---|
| Figure D-126. | **Part Numbers** | **205-030-028-5 DOOR ASSEMBLY**<br>**205-030-028-6**<br>**205-030-028-25**<br>**205-030-028-27** |
| | **Fabricate from:** | **NSN 9535-00-167-2279**<br>**NSN 9330-00-576-3984**<br>**NSN 5340-00-661-8140** |
| | **Material:** | **2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.025 Inch Thick**<br>**Hinge Butt, Aluminum Alloy**<br>**Make From MS200001P3-7200 Material** |

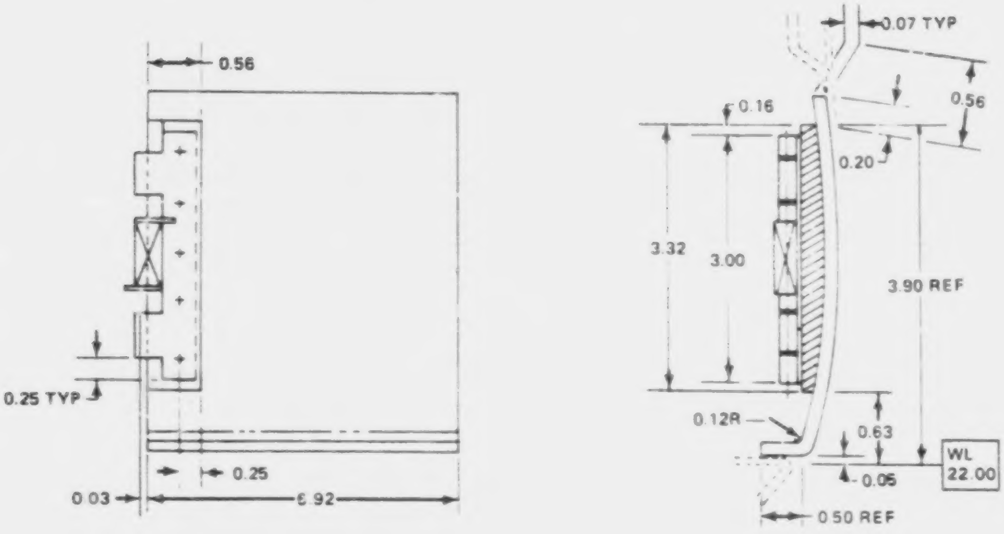

0.56
0.25 TYP
0.25
0.03
6.92
0.07 TYP
0.16
0.56
0.20
3.32
3.00
3.90 REF
0.12R
0.63
WL
22.00
0.05
0.50 REF

Figure D-127. Part Number 205-030-031-7 DOOR ASSEMBLY
Fabricate from: NSN 9535-00-167-2279
NSN 9330-00-260-3806
NSN 5340-00-664-8140
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.032 Inch Thick
Plastic Sheet Phenolic, Federal Specification MIL-D-15035, 0.250 Inch Thick

205030-2002

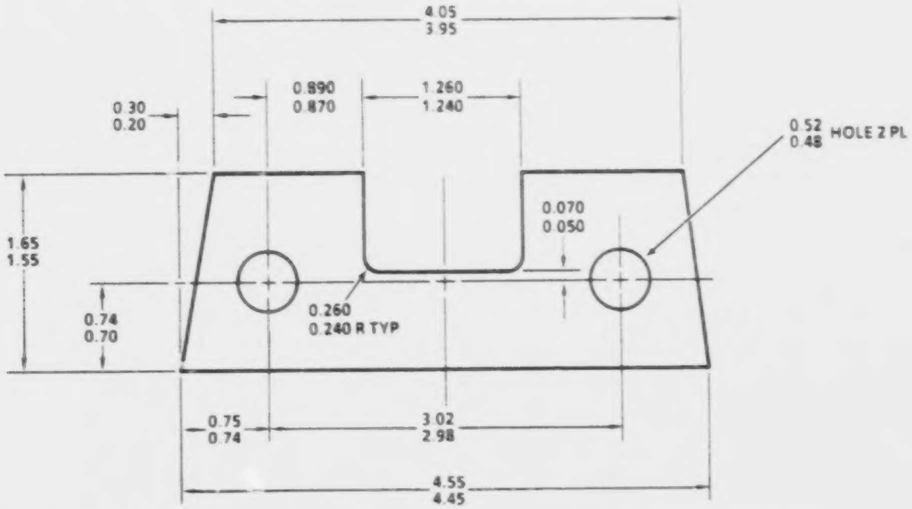
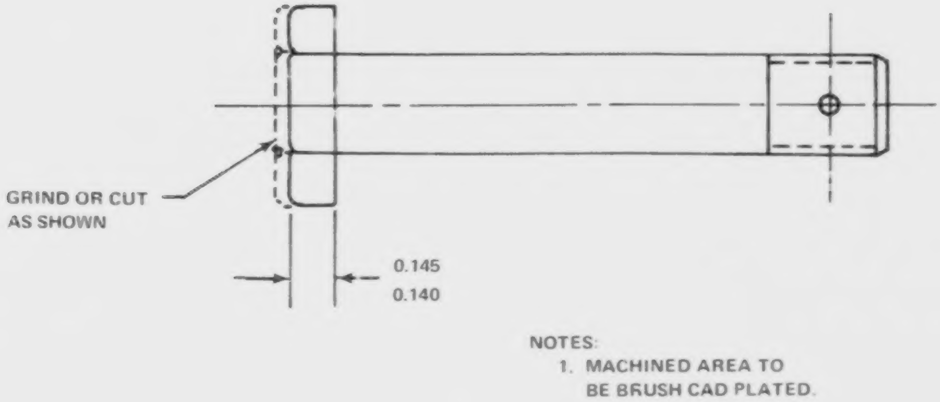

4.05
3.95
0.890
0.870
1.260
1.240
0.30
0.20
0.52
0.48
HOLE 2 PL
1.65
1.55
0.070
0.050
0.74
0.70
0.260
0.240 R TYP
0.75
0.74
3.02
2.98
4.55
4.45

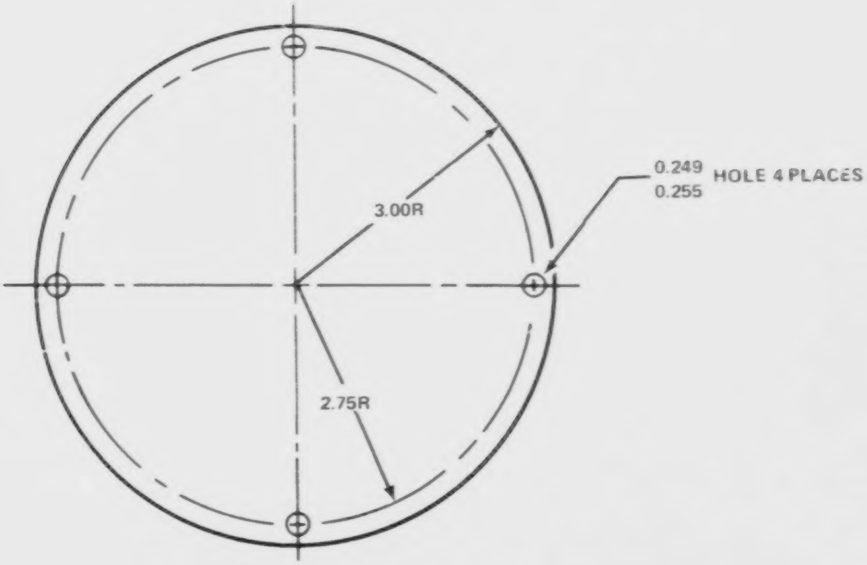
**Figure D-127.1.** Part Number: 204-011-213-101 , Hub Spring Main Rotor Shim

Fabricate From:
Material: Cres shim, MIL-S-22499 Comp 3
TY1, CL2
Thickness 0.0900
Width 2.000
Length 5.0

204011-2053
204-011-213-101


GRIND OR CUT AS SHOWN
0.145
0.140
NOTES:
1. MACHINED AREA TO BE BRUSH CAD PLATED.

| | | |
|---|---|---|
| Figure D-128. | Part Number | 204-011-461-1 BOLT, SWASHPLATE |
| | Fabricate from: | NSN 5306-00-639-2277 |
| | Material: | Bolt Shear Steel, Make from NAS 464-5-20 |


3.00R
0.249
0.255
HOLE 4 PLACES
2.75R

| | | |
|---|---|---|
| Figure D-129. | Part Number | 205-030-247-25 COVER PLATE |
| | Fabricate from: | NSN 9533-00-167-2278 |
| | Material: | 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.025 Inch Thick |

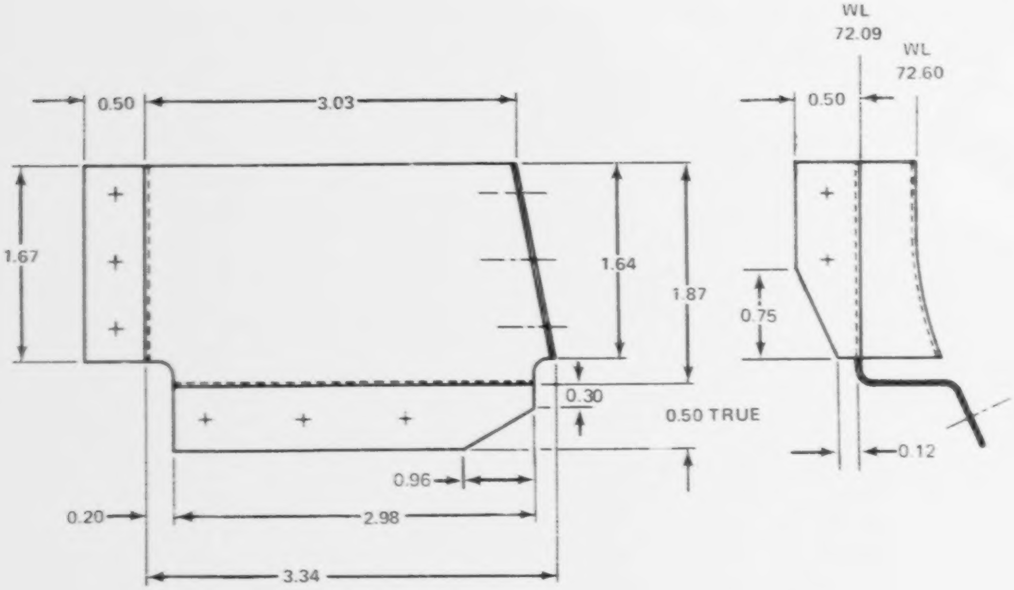

WL
72.09
WL
72.60
0.50
3.03
0.50
1.67
1.64
1.87
0.75
0.30
0.50 TRUE
0.12
0.96
0.20
2.98
3.34

**Figure D-130.** Part Number 205-030-302-5 & -6, SUPPORT, Stop Cargo Door
Fabricate from: NSN 9535-00-167-2280
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-25/5, 0.040 Inch Thick

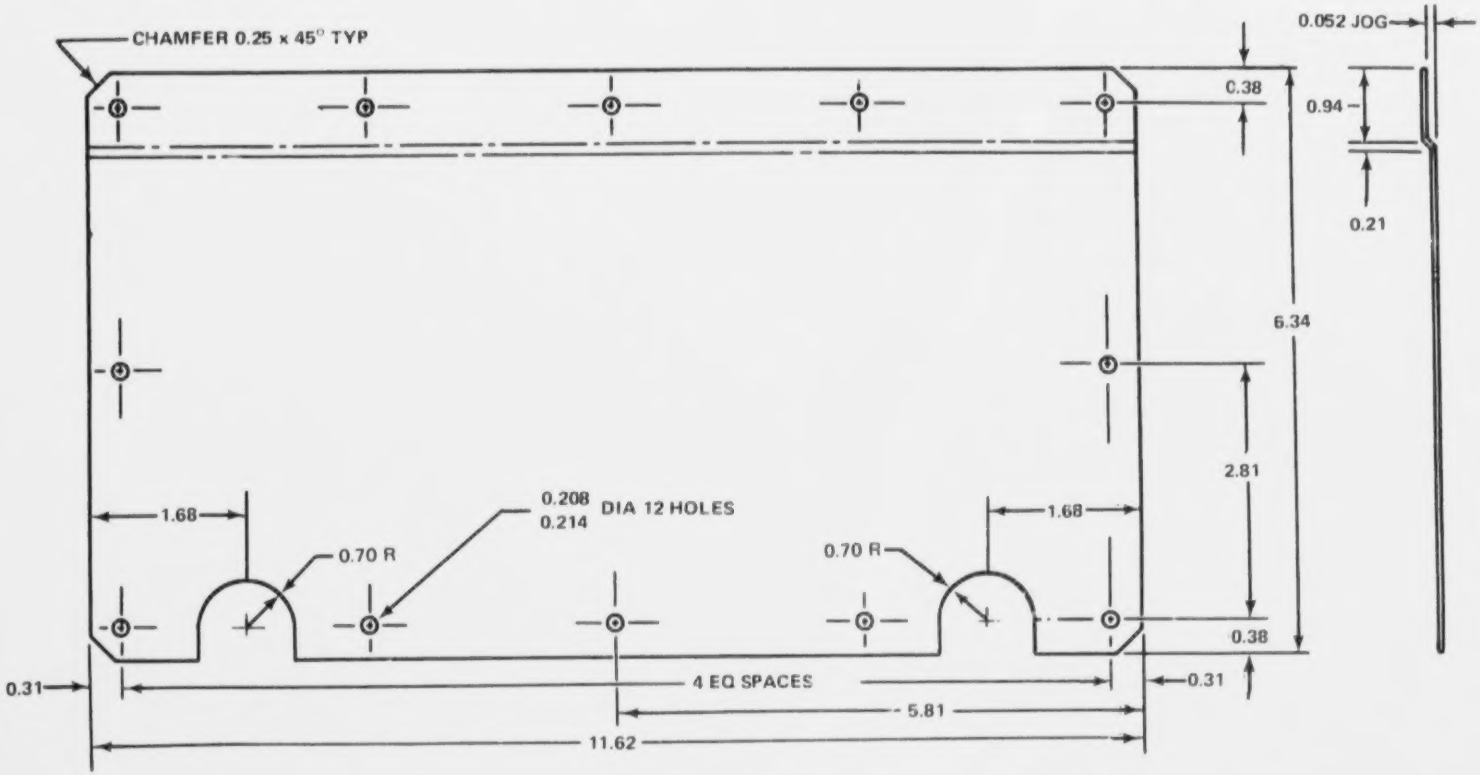
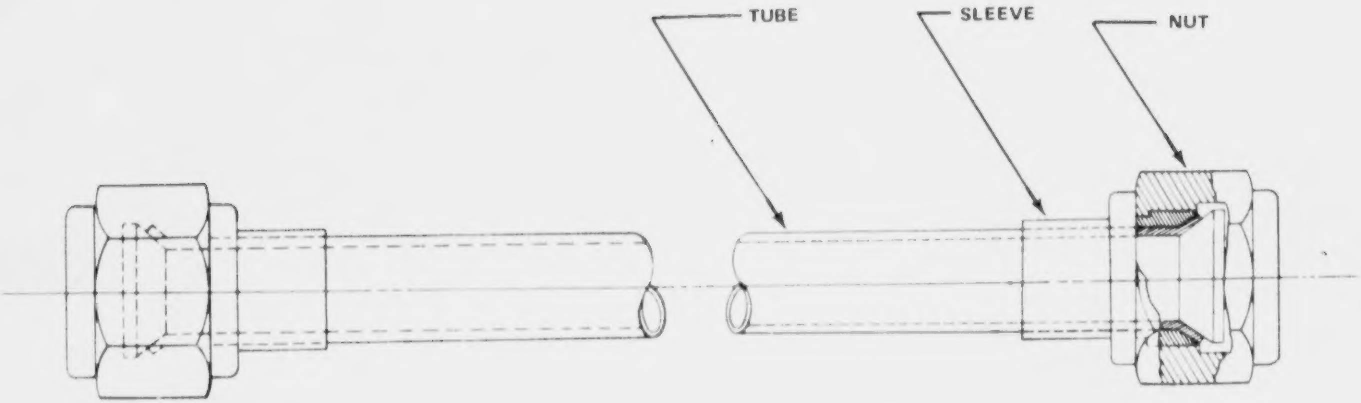

CHAMFER 0.25 x 45° TYP
0.052 JOG
0.38
0.94
0.21
6.34
2.81
0.38
0.31
1.68
0.208
0.214
DIA 12 HOLES
0.70 R
0.70 R
1.68
0.31
4 EQ SPACES
5.81
11.62
0.31

**Figure D-131.**

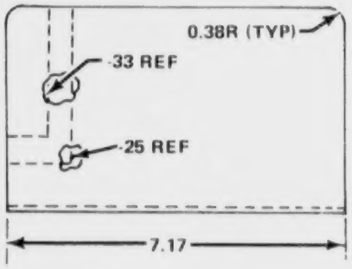
| | |
|---|---|
| Part Number | 205-030-309-13, COVER |
| Fabricate from: | NSN 9535-00-167-2279 |
| Material: | 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.032 Inch Thick |



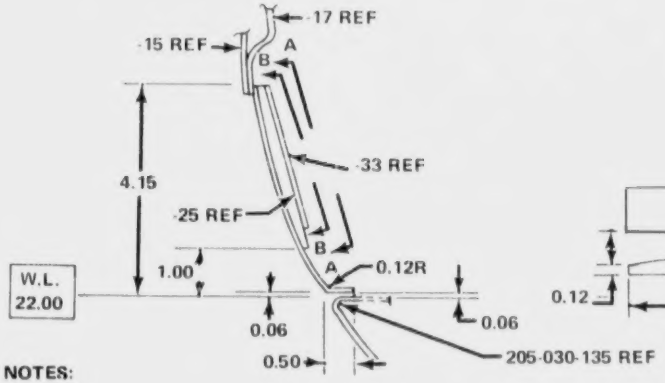
TUBE ASSEMBLY
Fabricate from:

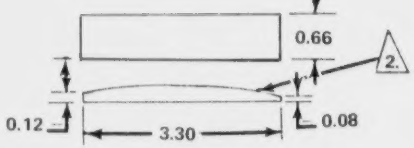
Figure D-132.

| Part Number | Tube NSN | Nut NSN | Sleeve NSN |
|---|---|---|---|
| 205-030-431-1 | 4710-00-279-0955 | 4730-00-142-2167 | 4730-00-278-6070 |
| 205-030-432-1 | 4710-00-279-0955 | 4730-00-142-2167 | 4730-00-278-6070 |
| 205-040-130-1 | 4710-00-279-0955 | 4730-00-142-2167 | 4730-00-278-6070 |


0.38R (TYP)
-33 REF
-25 REF
7.17

-23


-17 REF
-15 REF
A
B
-33 REF
4.15
-25 REF
B
A
0.12R
1.00
W.L.
22.00
0.06
0.06
0.50
205-030-135 REF


0.66
2.
0.12
3.30
0.08

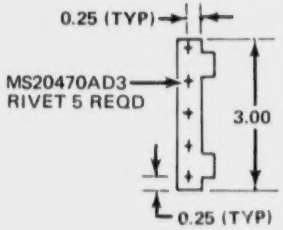
SECTION A-A

-25

NOTES:

1. APPLY ONE COAT ZINC CHROMATE PRIMER NSN 8010-00-899-8825 PER TB 746-93-2 FOLLOWING APPLICATION OF CHEMICAL FILM.

2. CONTOUR TO MATCH -23 DOOR.


0.25 (TYP)
MS20470AD3
RIVET 5 REQD
3.00
0.25 (TYP)

SECTION B-B

-33

| QTY REQ'D | | NOMENCLATURE OR DESCRIPTION | NOTES |
|---|---|---|---|
| 1 | -33 | HINGE HALF | 1 |
| 1 | -25 | SPACER | 2 |
| 1 | -23 | DOOR | 1 |

Figure D-133. Part Number 205-030-029-5 DOOR ASSEMBLY
Fabricate from: NSN 9535-00-167-2174
NSN 5340-00-664-8140
NSN 9330-00-260-3807
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/4, Temp T3, 0.025 Inch Thick
Hinge, Butt Aluminum Alloy, Make from Material MS20257-X93-400
Plastic Sheet Phenolic, Federal Specification MIL-P-15035, 0.1875 Inch Thick

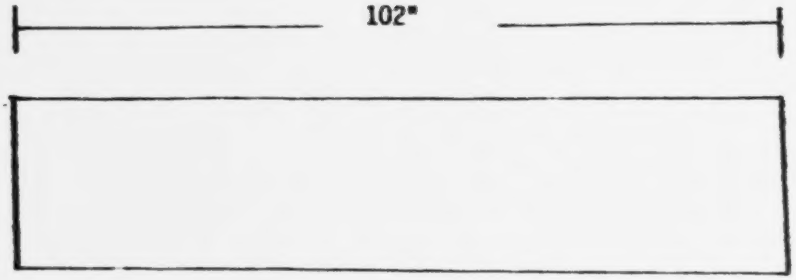
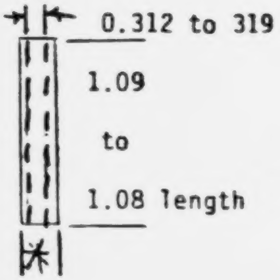


Figure D-134

Part Number: 110-119-1
Fabricate from: NSN 9390-00-622-4420
Material: Extrusion—Rubber

Figure D-135
Part Number: UH-1 S0054-1
Fabricate from: NSN 9510-00-056-1916
Material: Metal bar steel, QQ-S-763, class 310
Hot Rolled Annealed, 0.5 inch diameter



Grind 0.D to provide an interference fit of 0.0001 to 0.0003 to fill existing reamed out hole with maximum diameter of 0.3594 plus 0.000 minus 0.001.

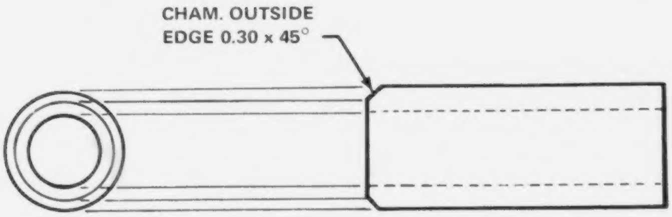

CHAM. OUTSIDE
EDGE 0.30 x 45°

Figure D-136. Part Number 205-030-543-17 SPACER
Fabricate from: NSN 5340-00-809-9379
Material: Spacer, Sleeve, Aluminum Alloy, Make from
NAS 43DD3-51 Spacer

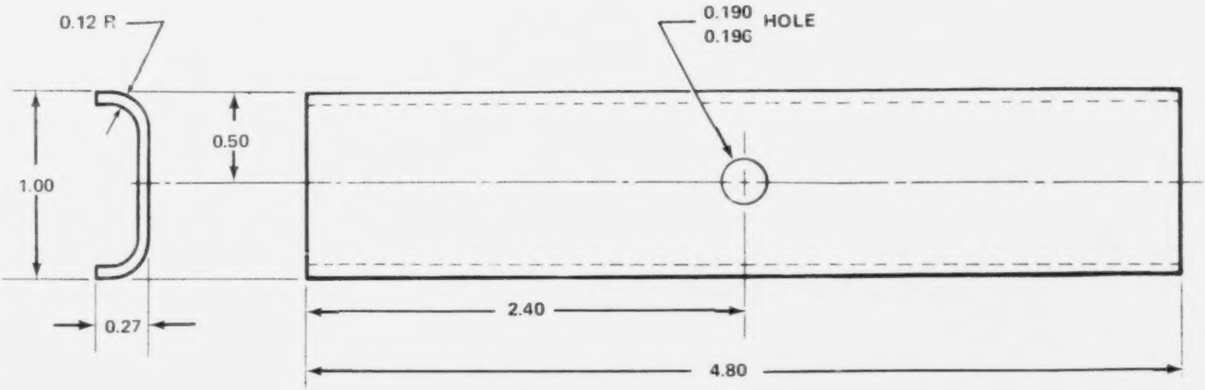
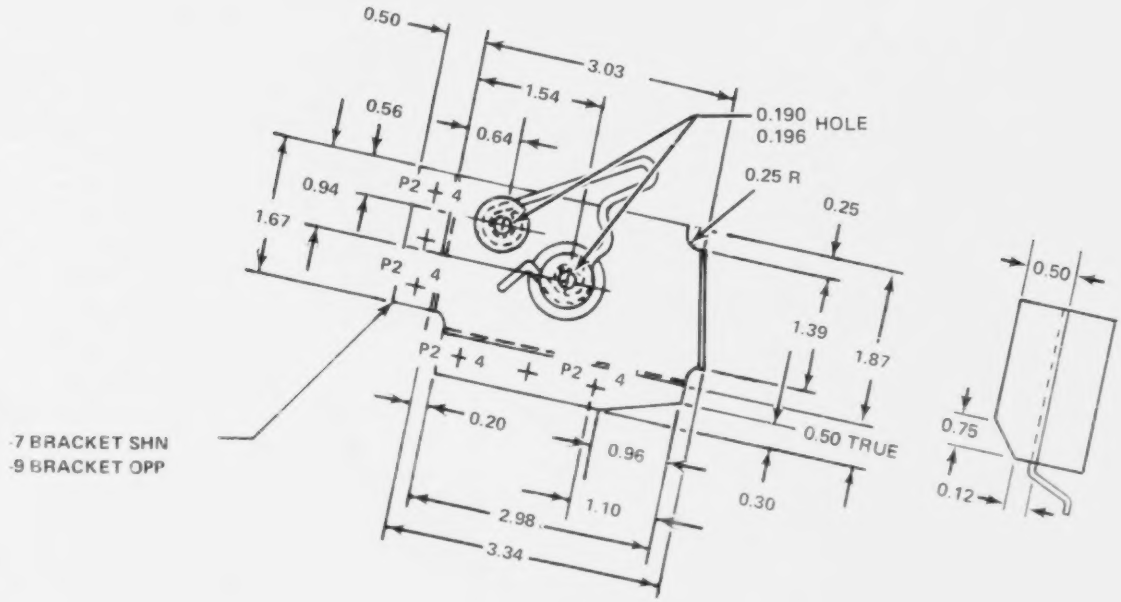

0.12 R
0.190
0.196
HOLE
0.50
1.00
0.27
2.40
4.80

Figure D-137. Part Number 205-030-614-13 CHANNEL
Fabricate from: NSN 9535-00-167-2279
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5,
TEMP T3, 0.032 Inch Thick


0.50
3.03
1.54
0.56
0.64
0.190
0.196
HOLE
0.25 R
0.25
0.94
P2
4
1.67
0.50
1.39
1.87
0.75
0.12
0.20
0.96
0.50 TRUE
0.30
1.10
2.98
3.34
-7 BRACKET SHN
-9 BRACKET OPP

NOTES:

1. ALL BEND RADII 0.09
2. ALL BEND RELIEF 0.16R

| | | |
|---|---|---|
| Figure D-138. | Part Number | 205-030-671-7 BRACKET<br>205-030-671-9 |
| | Fabricate from: | NSN 9535-00-167-2280 |
| | Material: | 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, TEMP 0 H.T. T42, 0.040 Inch Thick |

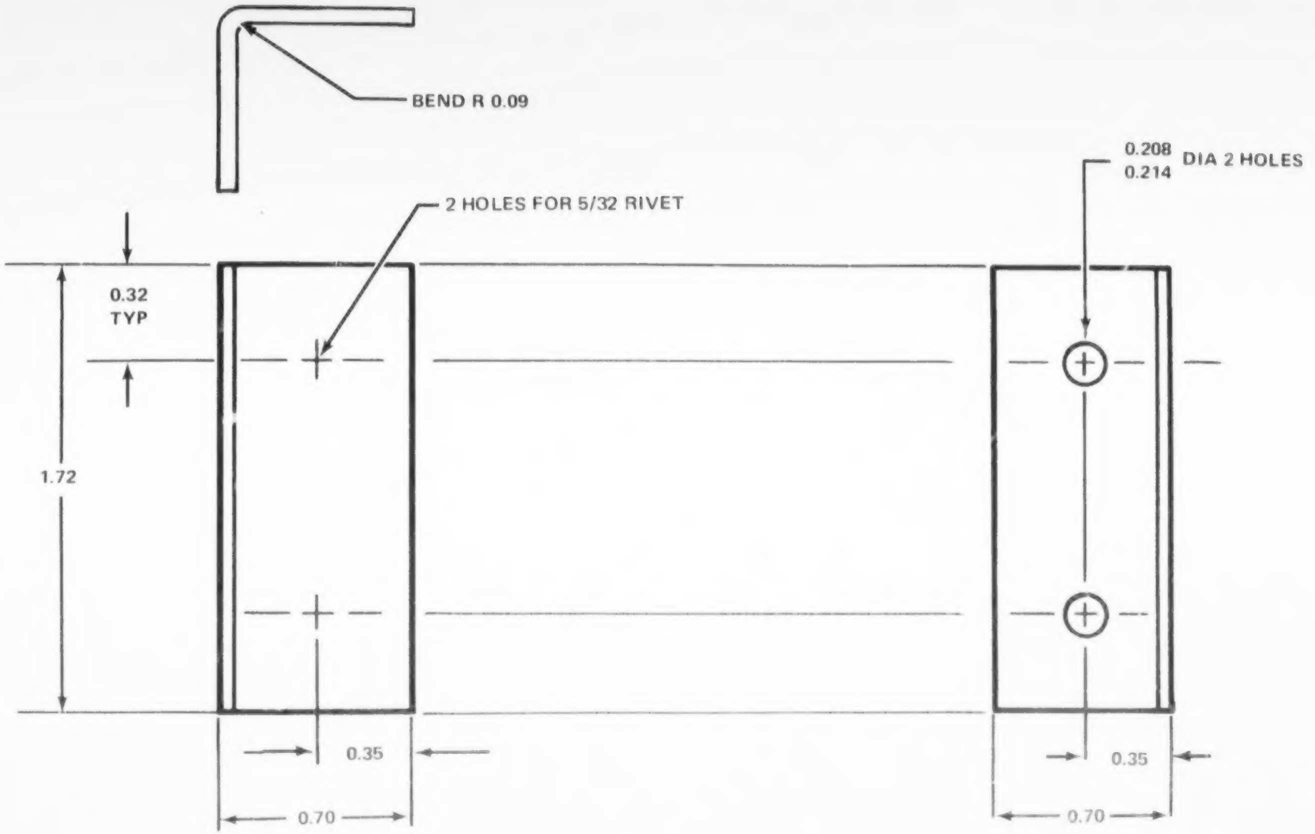

BEND R 0.09
2 HOLES FOR 5/32 RIVET
0.208
0.214
DIA 2 HOLES
0.32
TYP
1.72
0.35
0.70
0.35
0.70

Figure D-139. Part Number 205-030-737-3 BRACKET
Fabricate from: NSN 9535-00-167-2280
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5,
Temp 0 T42, 0.040 Inch Thick

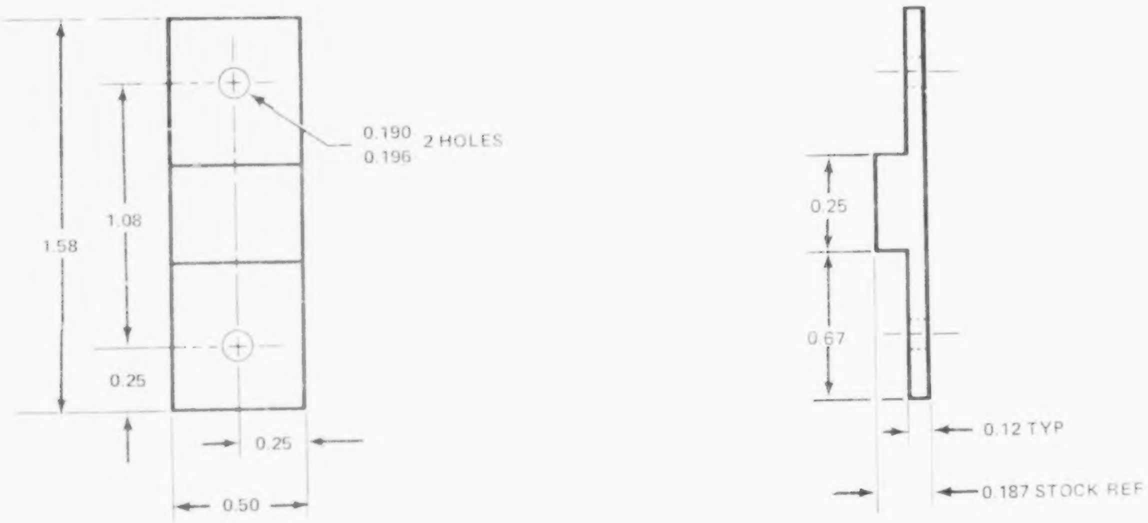

0.190
0.196
2 HOLES
1.08
1.58
0.25
0.25
0.50
0.25
0.67
0.12 TYP
0.187 STOCK REF

Figure D-140. Part Number 205-030-737-5 **SPACER**
Fabricate from: NSN 9330-00-290-3462
Material: Phenolic cotton fabric MIL-P-15035, Type FBM 0.1875 x 0.70 x 1.8

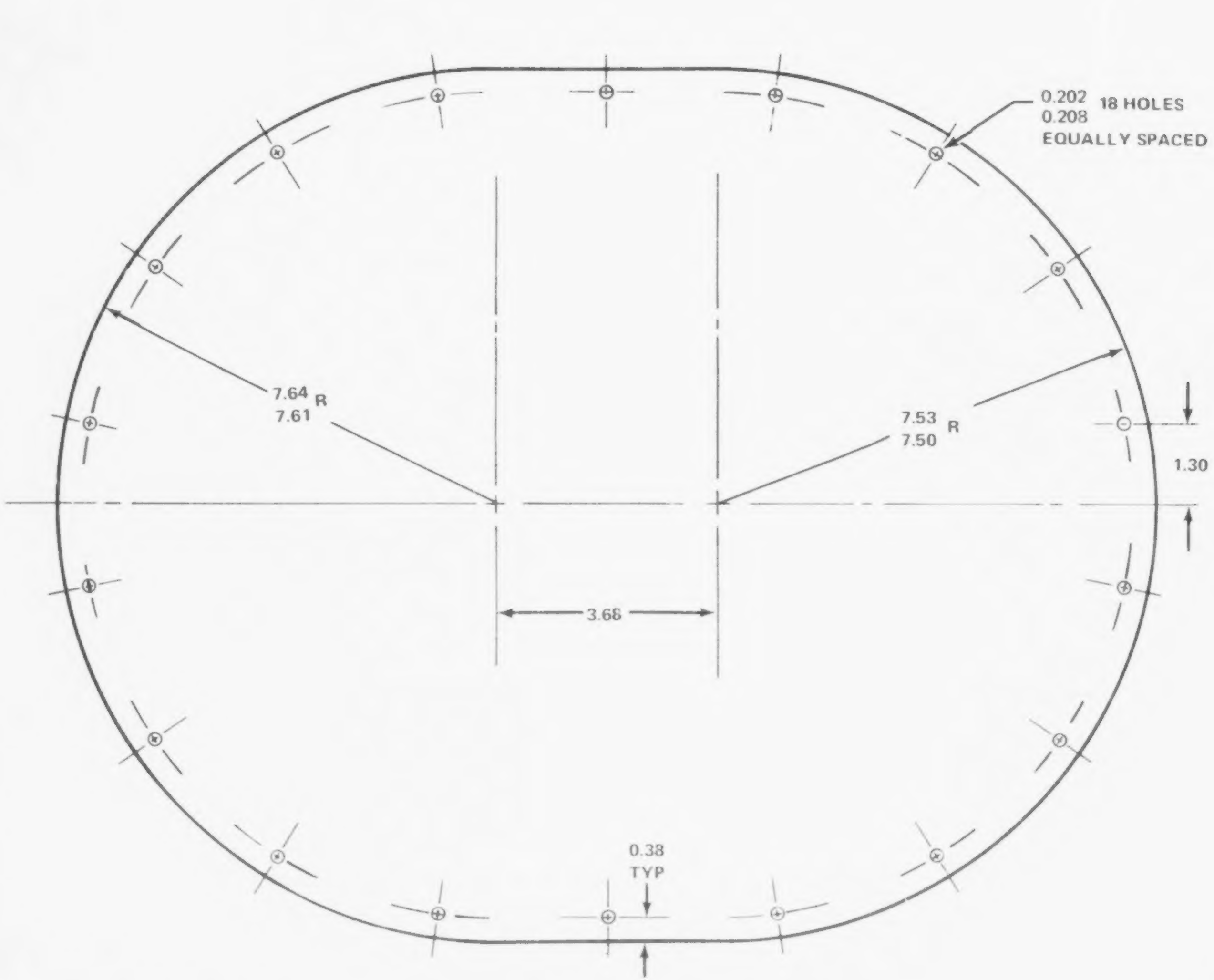

0.202
0.208
18 HOLES
EQUALLY SPACED
7.64
7.61
R
7.53
7.50
R
1.30
3.68
0.38
TYP

Figure D-141. Part Number 205-030-814-17 DOOR, Boom Access
Fabricate from: NSN 9535-00-167-2279
Material: 7075 AL ALY Sheet, Federal Specification QQ-A-250/13, Temp 0 to T6, 0.032 Inch Thick

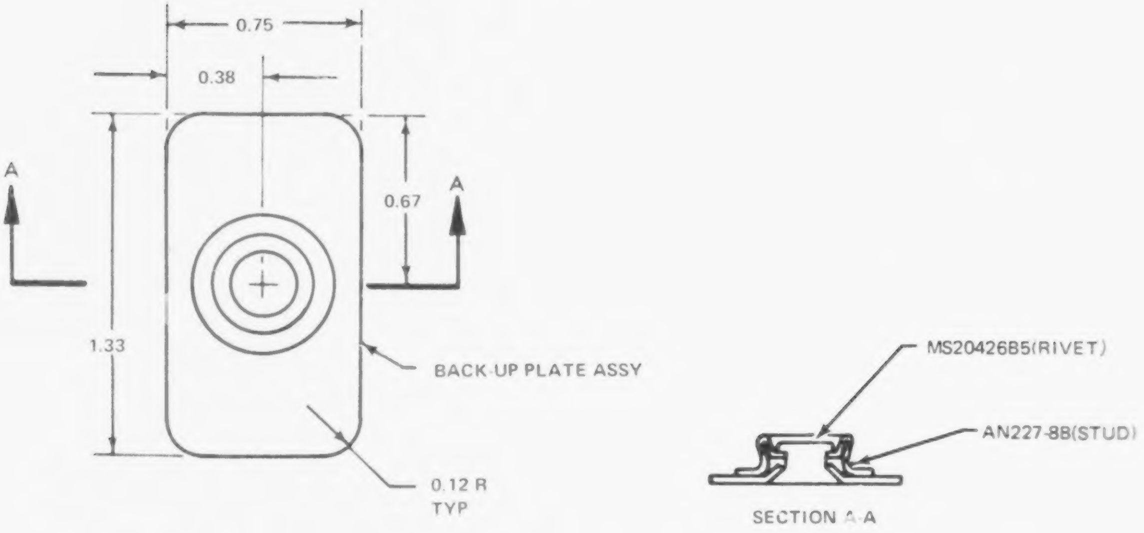
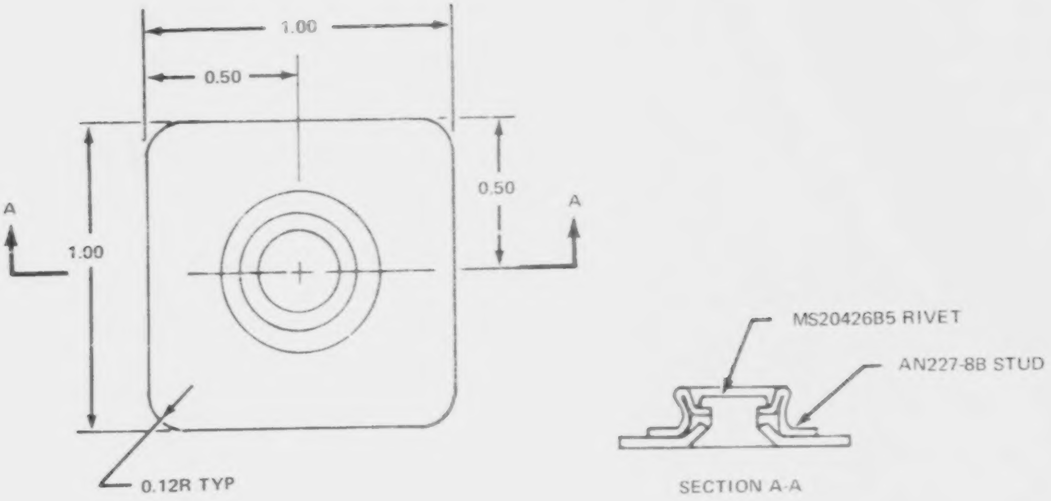

0.75
0.38
A
A
0.67
1.33
BACK-UP PLATE ASSY
0.12 R
TYP
MS20426B5(RIVET)
AN227-8B(STUD)
SECTION A-A

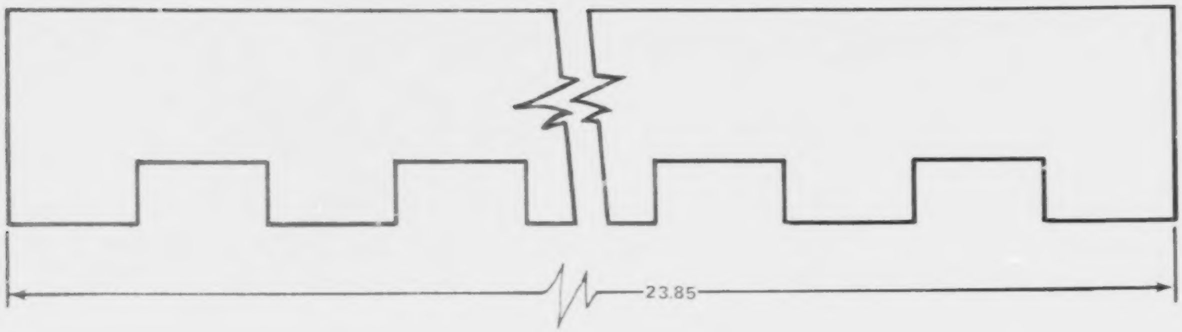
Figure D-142. Part Number 205-030-828-1 BACKUP PLATE ASSY
Fabricate from: NSN 9535-00-167-2279
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, T3, 0.032 Inch Thick
Stud-Snap Fastener, Metal (AN227-8B, Color Black)


1.00
0.50
0.50
A
A
1.00
0.12R TYP
MS20426B5 RIVET
AN227-8B STUD
SECTION A-A

NOTE:

1. INSTALL RIVETS PER BPS 4039

Figure D-143. Part Number 205-030-828-5 BACK-UP PLATE ASSEMBLY
Fabricate from: NSN 9535-00-167-2279
NSN 5325-00-174-2923
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, T3, 0.032 Inch Thick
Stud-Snap Fastener, Metal (AN227-8B, Color Black)



NOTE: ZINC CHROMATE FINISH

| | | |
|---|---|---|
| Figure D-144. | Part Number | 205-030-849-7 HINGE, Half |
| | Fabricate from: | NSN 5340-00-993-1461 |
| | Material: | Leaf Butt Hinge, Aluminum, 0.040 Inch Thick, Make from MS20257HP2-2400 Material |

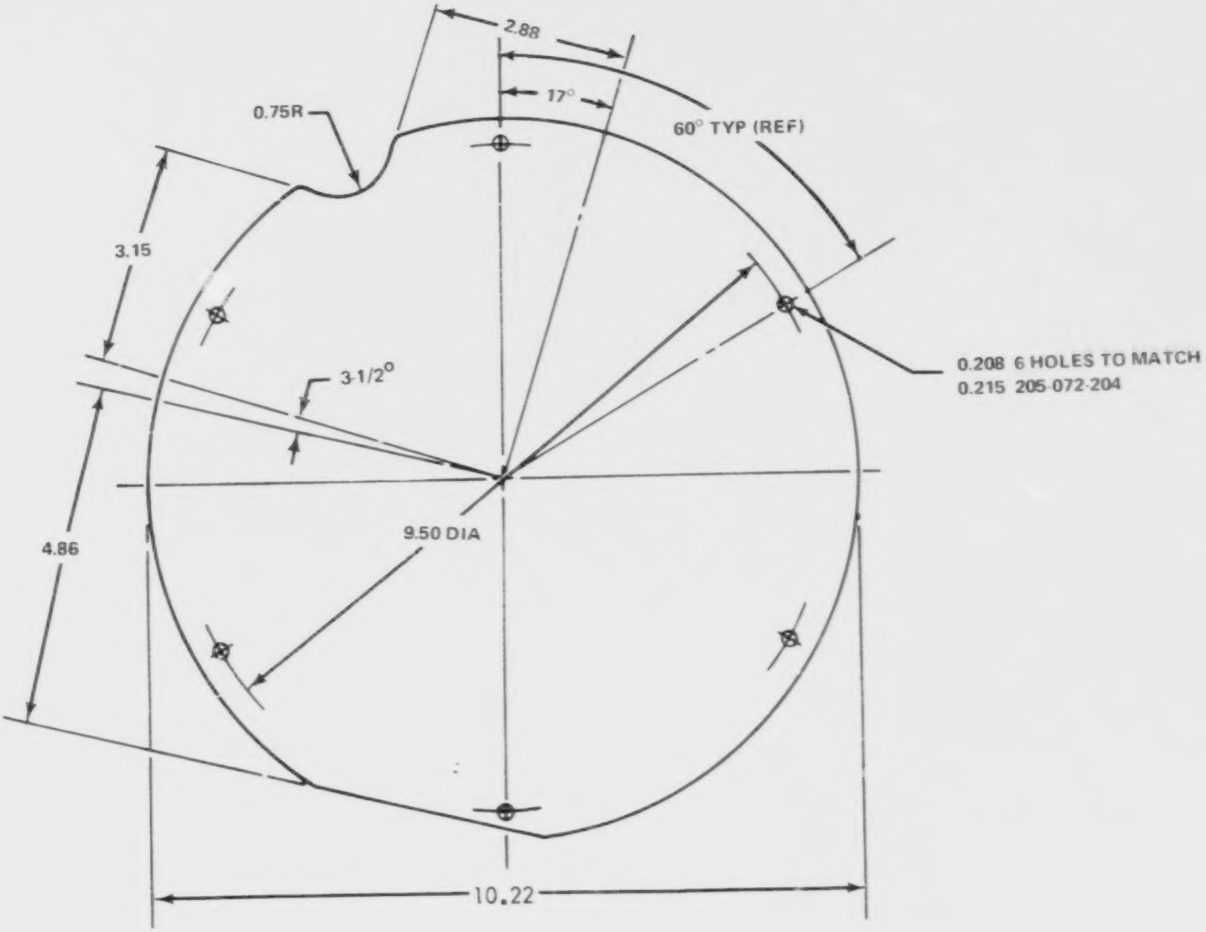

2.88
17°
0.75R
60° TYP (REF)
3.15
0.208 6 HOLES TO MATCH
0.215 205-072-204
3-1/2°
4.86
9.50 DIA
10.22

Figure D-145. Part Number 205-031-137-1 COVER, Access Aircraft Components

Fabricate from: NSN 9535-00-086-9729

Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.032 Inch Thick

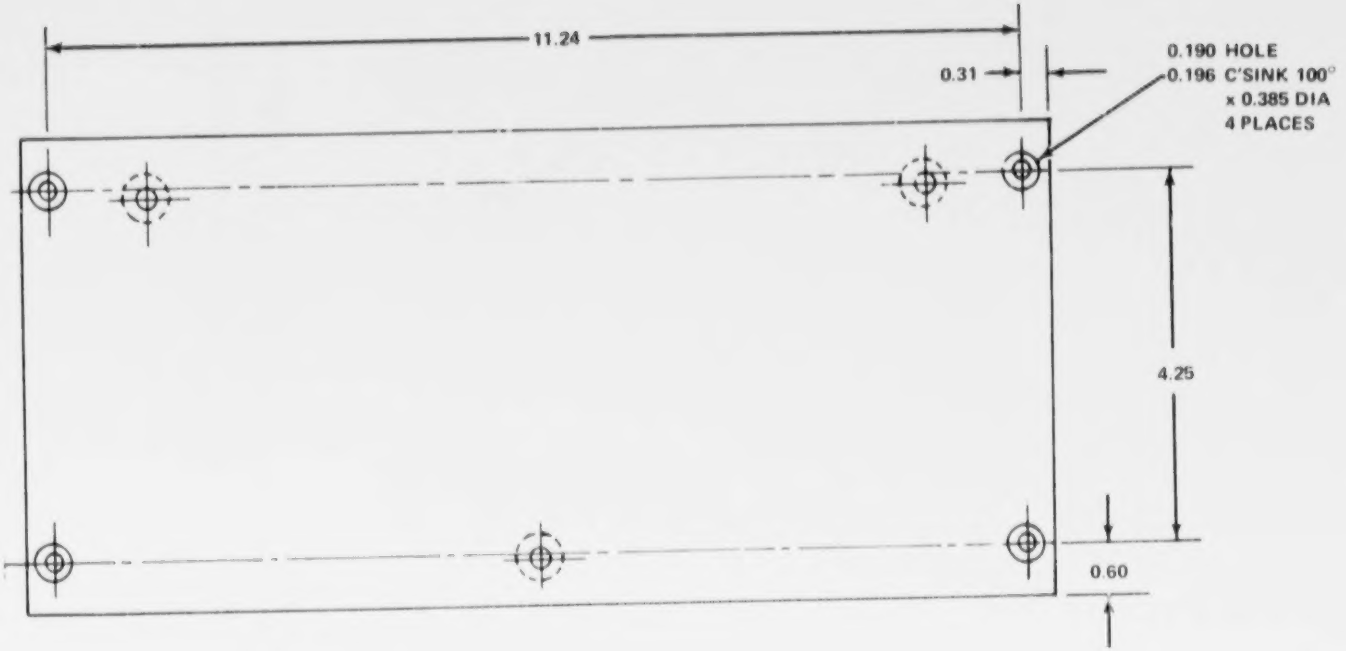
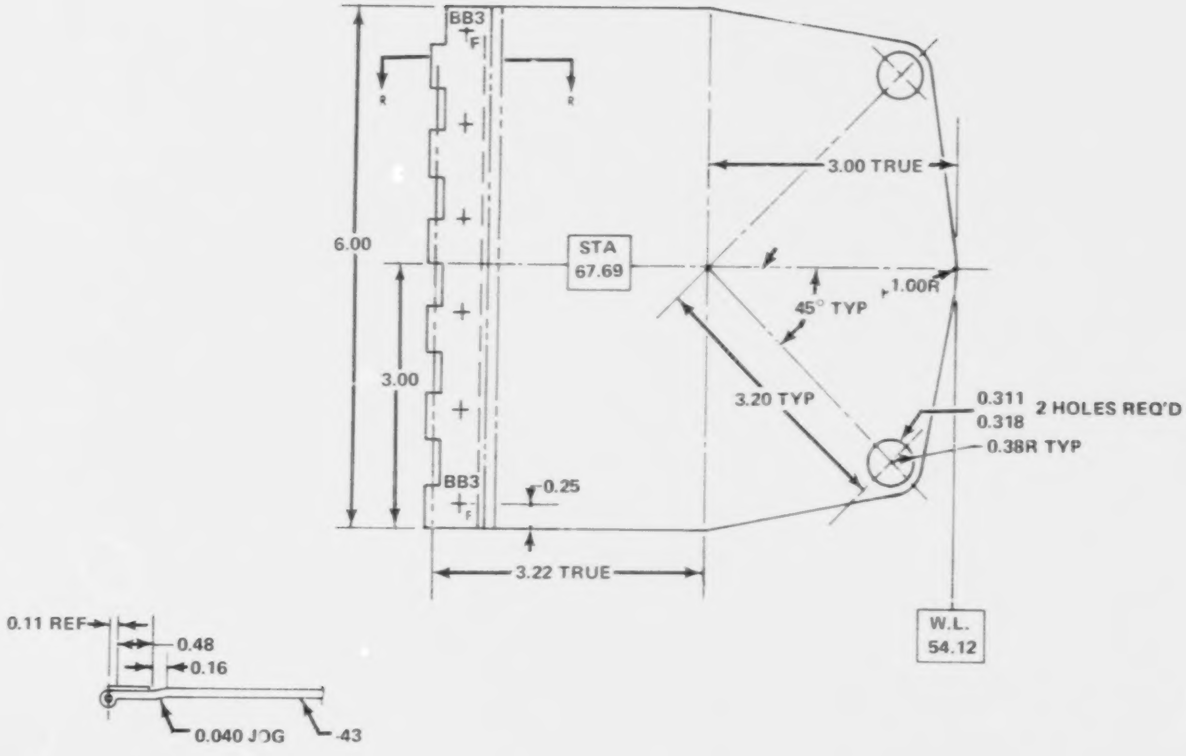

11.24
0.31
0.190 HOLE
0.196 C'SINK 100°
x 0.385 DIA
4 PLACES
4.25
0.60

Figure D-146.

| | |
|---|---|
| Part Number | 205-031-250-13 BASE PLATE |
| Fabricate from: | NSN 1560-00-903-0798 |
| Material: | Fabricate From E9161-BP<br>A Product of Laboratory<br>For Electronics, Inc.,<br>Boston, Mass<br>Code Ident No. 82598 |


BB3
F
R
R
6.00
3.00
STA
67.69
3.00 TRUE
1.00R
45° TYP
3.20 TYP
0.311
0.318
2 HOLES REQ'D
0.38R TYP
BB3
F
0.25
3.22 TRUE
W.L.
54.12
0.11 REF
0.48
0.16
0.040 JOG
-43

SECTION R-R

**Figure D-147.** **Part Number** 205-031-668-43 DOOR ASSEMBLY
**Fabricate from:** NSN 9535-00-167-2278
**Material:** 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, Temp T3, 0.025 Inch Thick

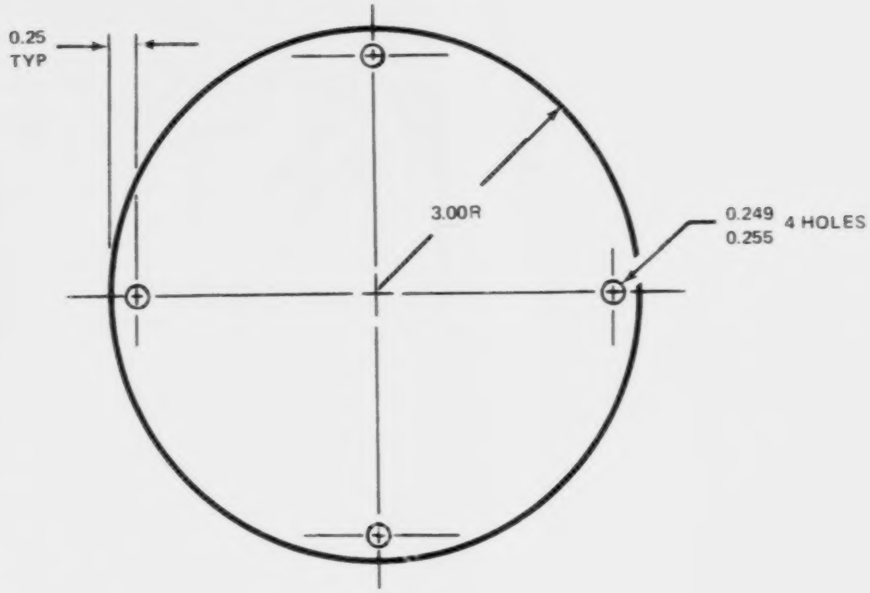

0.25
TYP
3.00R
0.249
0.255
4 HOLES

**Figure D-148.** Part Number 205-031-668-53, COVER PLATE
Fabricate from: NSN 9535-00-167-2278
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.025 Inch Thick

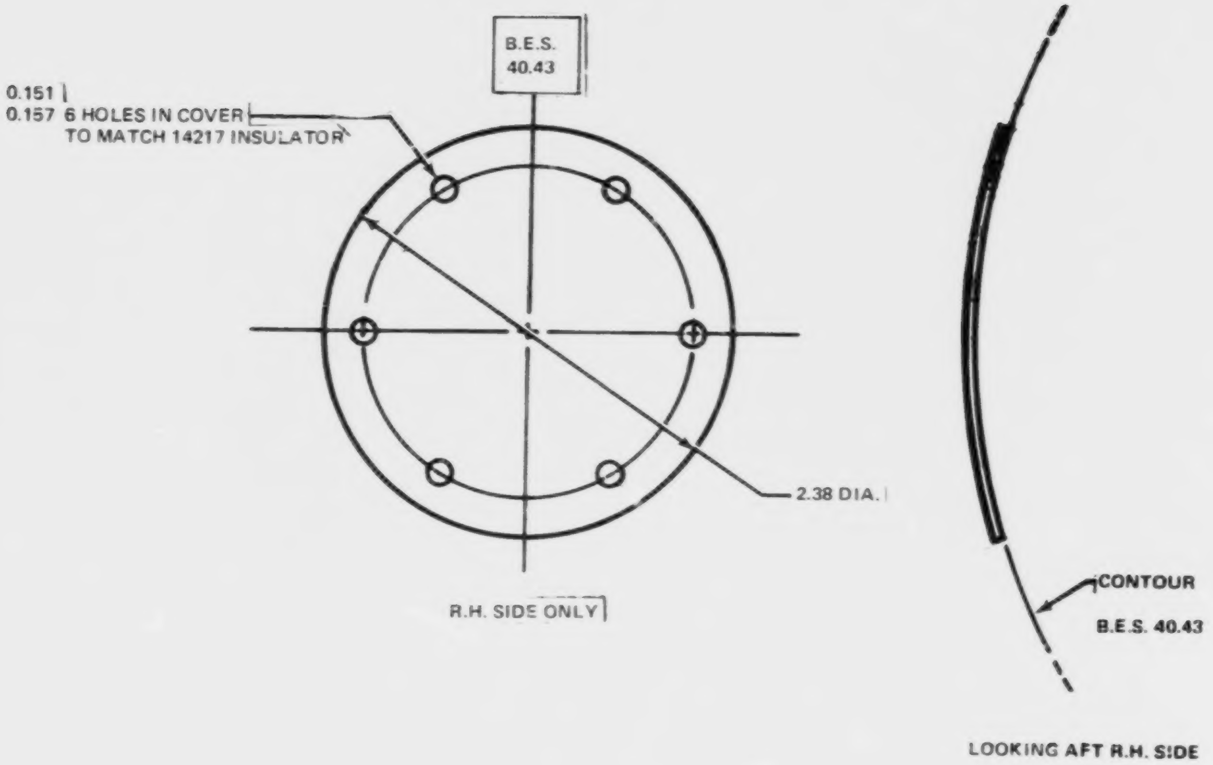
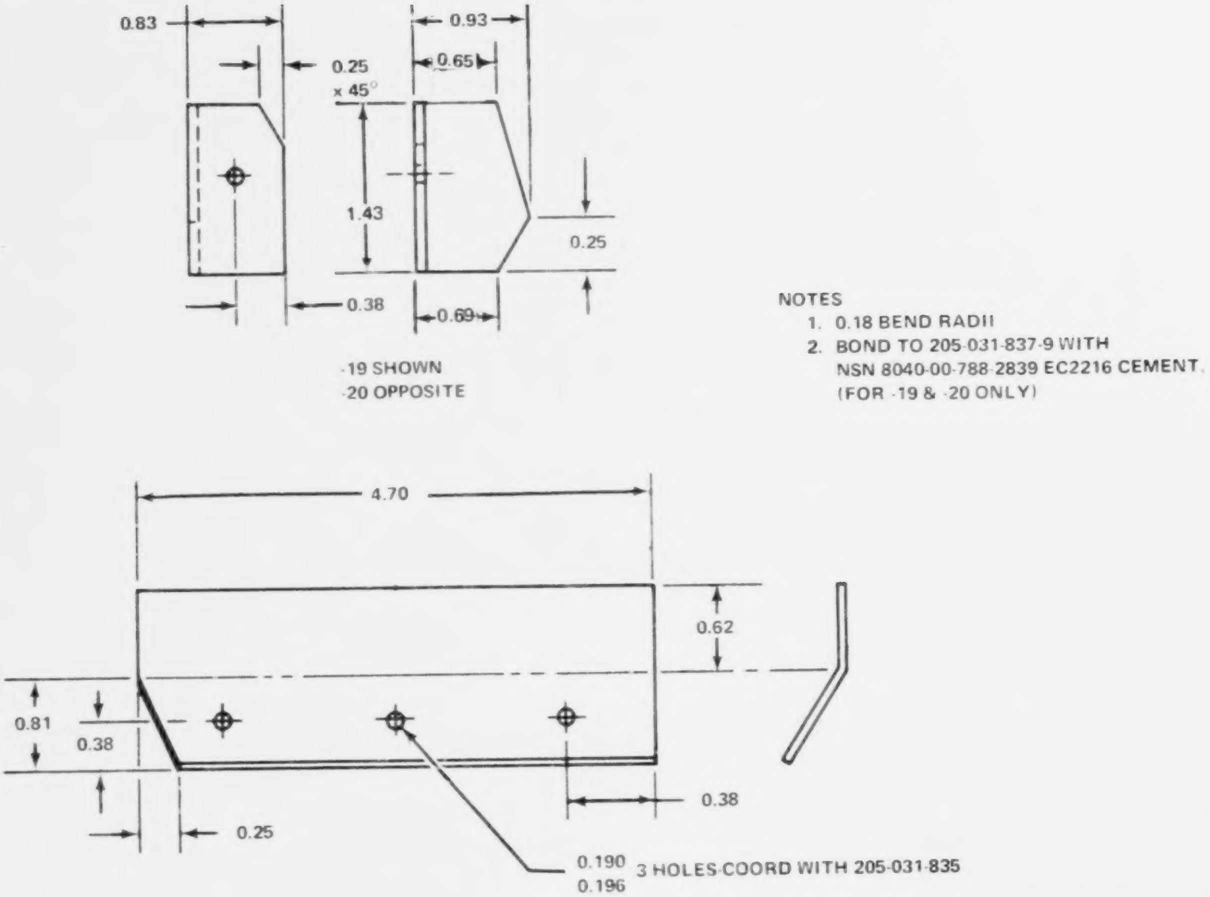
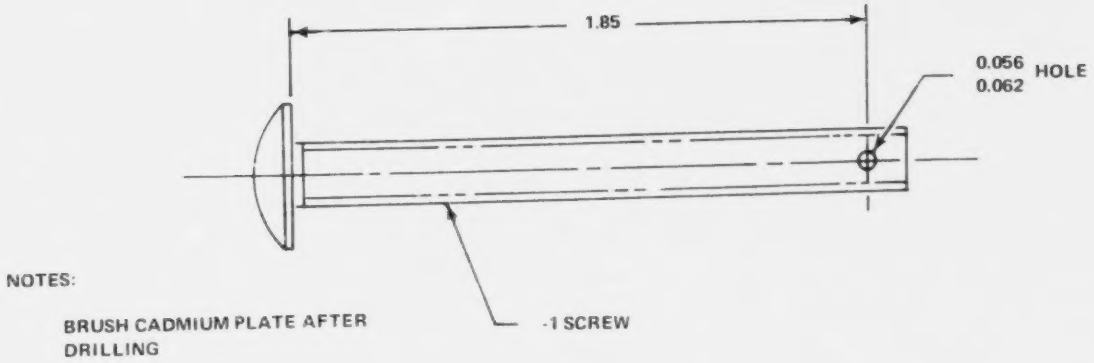

B.E.S.
40.43
0.151
0.157 6 HOLES IN COVER
TO MATCH 14217 INSULATOR
2.38 DIA.
R.H. SIDE ONLY
CONTOUR
B.E.S. 40.43
LOOKING AFT R.H. SIDE

Figure D-149. Part Number 205-031-801-53 COVER, Tailboom
Fabricate from: NSN 9535-00-167-2278
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, Temp T3, 0.025 Inch Thick


0.83
0.25
x 45°
0.93
0.65
1.43
0.25
0.38
0.69
-19 SHOWN
-20 OPPOSITE
4.70
0.62
0.81
0.38
0.25
0.38
0.190
0.196
3 HOLES COORD WITH 205-031-835

NOTES
1. 0.18 BEND RADII
2. BOND TO 205-031-837-9 WITH NSN 8040-00-788-2839 EC2216 CEMENT. (FOR -19 & -20 ONLY)

Figure D-150. **Part Number** **205-031-837-19, -20, -21 CLIP**
**Fabricate from:** **NSN 9535-00-640-2311**
**Material:** **2024 AL ALY Sheet, Federal Specification QQ-A-362, Temp T3, 0.050 Inch Thick**


1.85
0.056
0.062
HOLE
-1 SCREW

NOTES:

BRUSH CADMIUM PLATE AFTER DRILLING

Figure D-151. Part Number 205-031-898-1 SCREW
Fabricate from: NSN 5305-00-995-6311
Material:

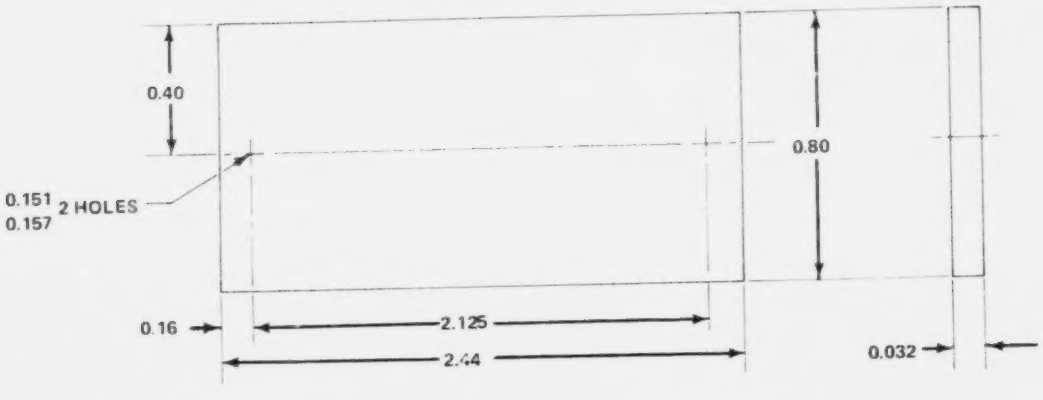
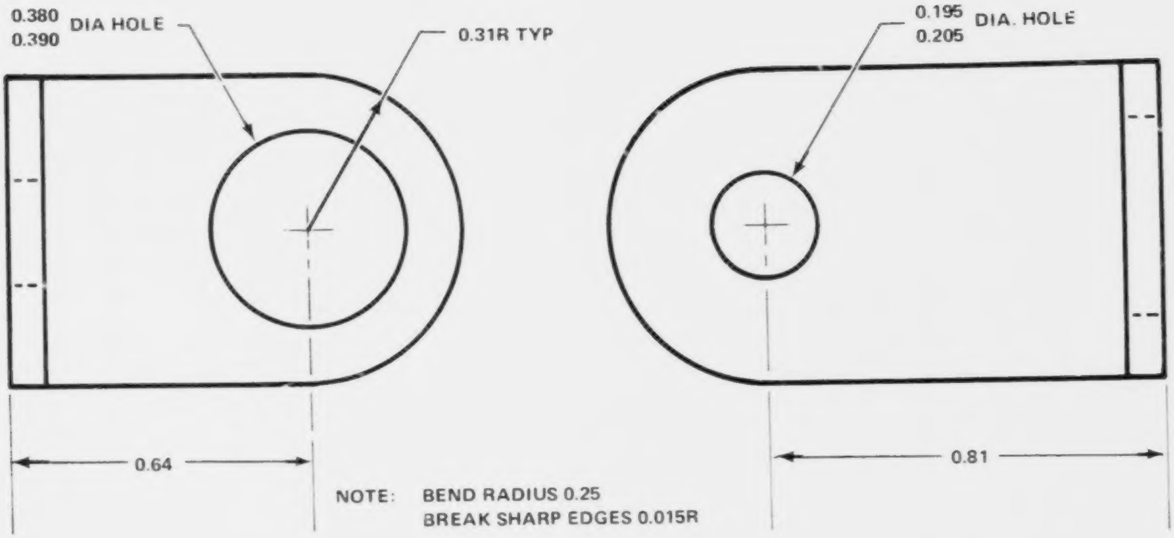

0.40
0.80
0.151
0.157
2 HOLES
0.16
2.125
2.44
0.032

Figure D-152. Part Number 204-031-136-17 COVER
Fabricate from: NSN 9535-00-167-2279
Material: AL ALY Sheet, Federal Specification QQ-A-250/5, Temp T3, 0.032 Inch Thick


0.380
0.390 DIA HOLE
0.31R TYP
0.195
0.205 DIA. HOLE
0.64
0.81

NOTE: BEND RADIUS 0.25
BREAK SHARP EDGES 0.015R

**Figure D-153.** Part Number 205-040-131-1, BRACKET, Support, Oil Line, Transmission
Fabricate from: NSN 9535-00-232-0378
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.063 Inch Thick

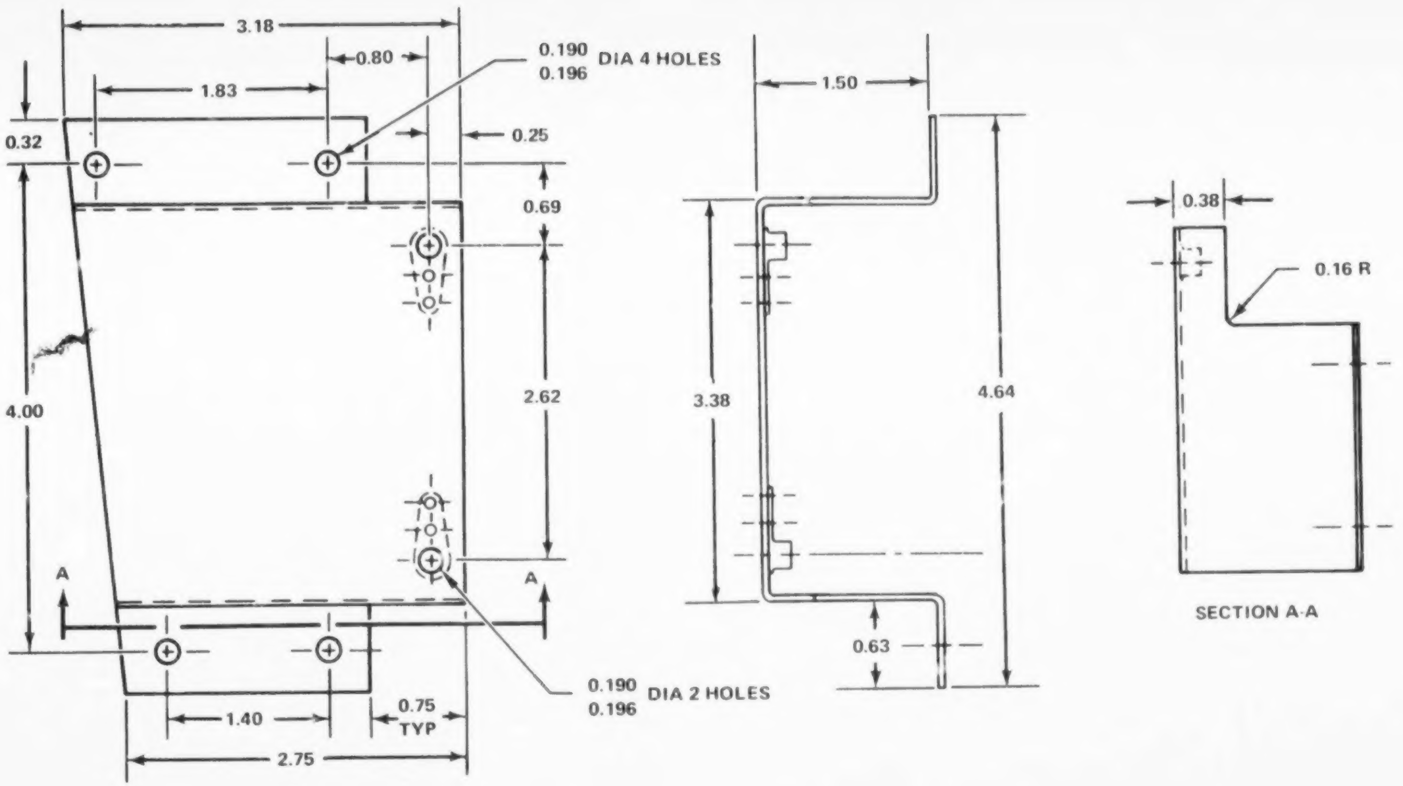

3.18
0.80
1.83
0.190
0.196
DIA 4 HOLES
0.32
0.25
0.69
4.00
2.62
A
A
1.40
0.75
TYP
2.75
0.190
0.196
DIA 2 HOLES
1.50
3.38
4.64
0.63
0.38
0.16 R
SECTION A-A

Figure D-154. Part Number 205-040-152-1 BRACKET ASSEMBLY, Transmission Oil
Fabricate from: NSN 9535-00-085-9729
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-350/5,
0.032 Inch Thick

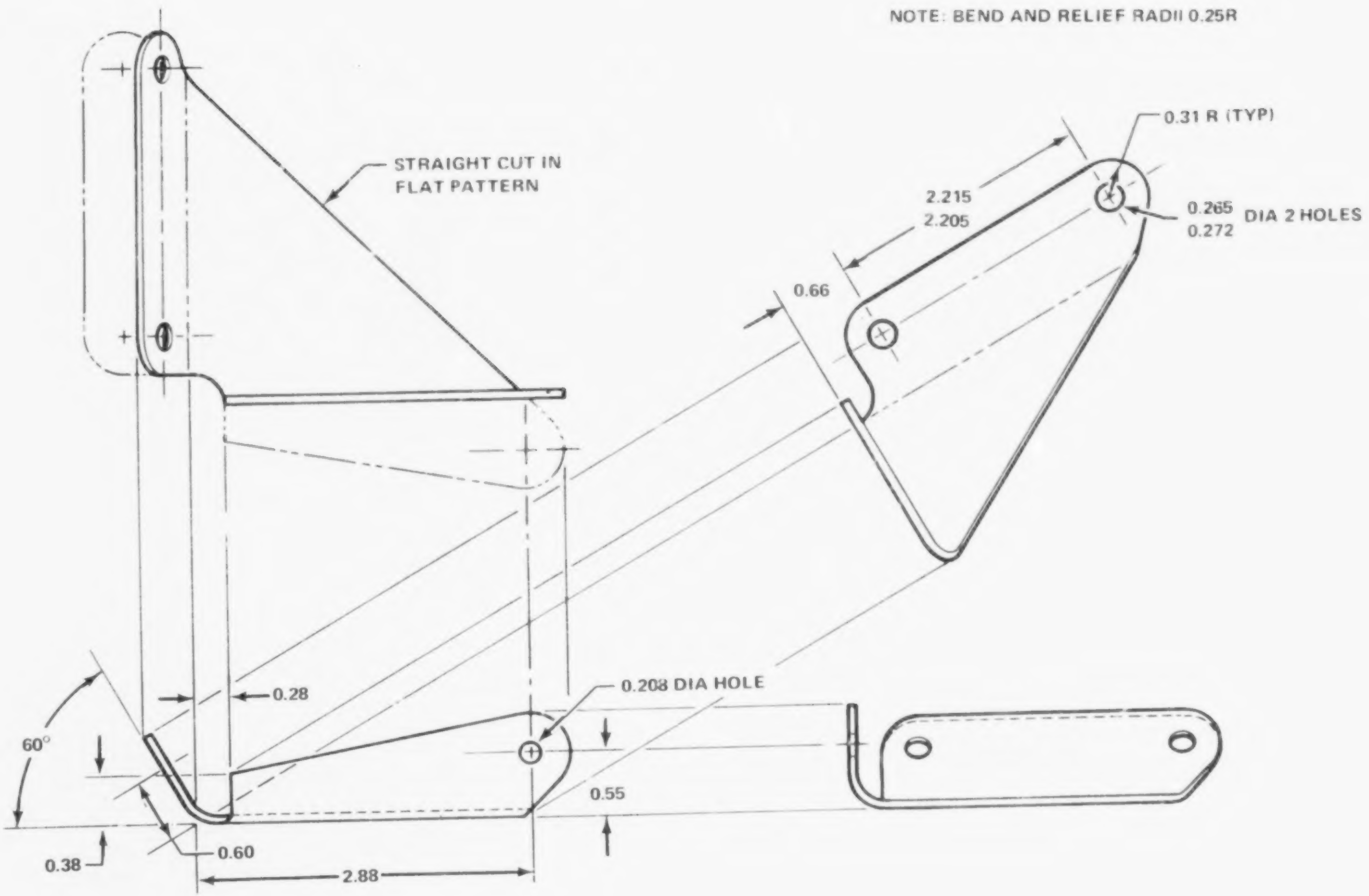
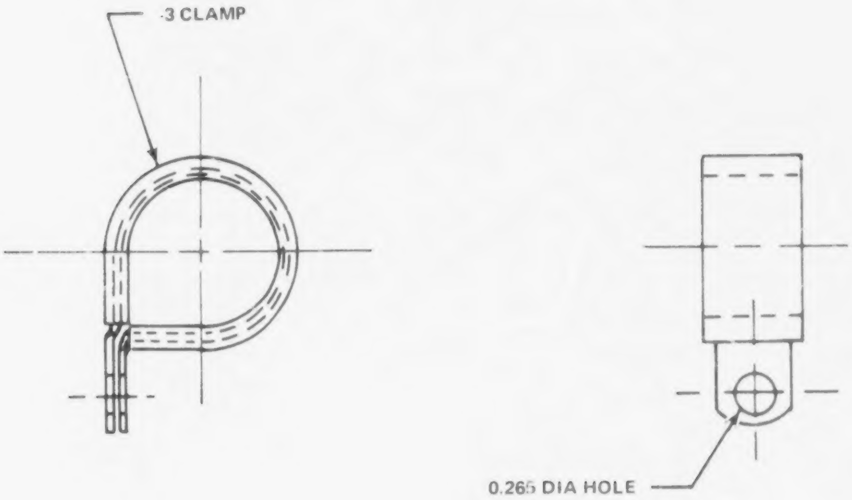
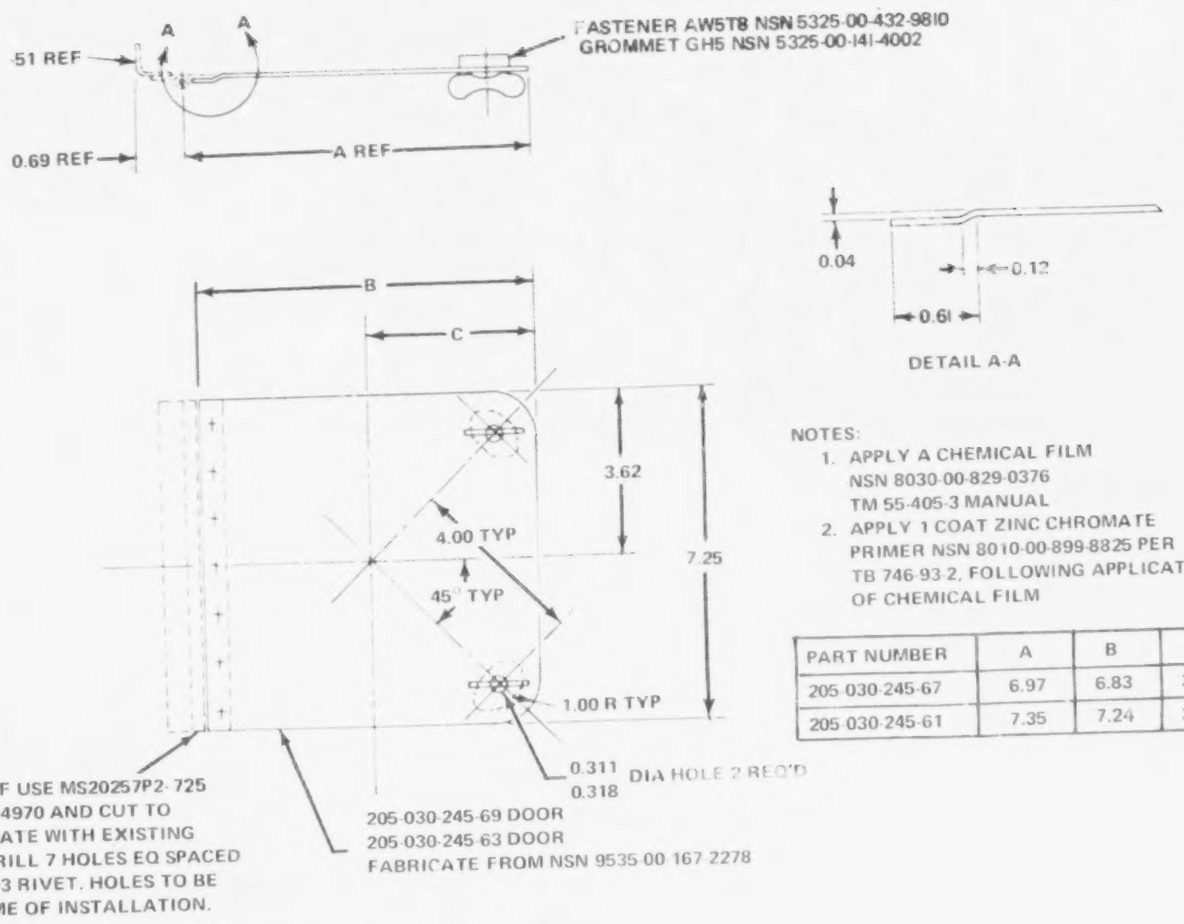

NOTE: BEND AND RELIEF RADII 0.25R
STRAIGHT CUT IN FLAT PATTERN
0.31 R (TYP)
2.215
2.205
0.265
0.272
DIA 2 HOLES
0.66
0.208 DIA HOLE
0.28
60°
0.55
0.38
0.60
2.88

Figure D-155. Part Number 205-040-154-3, BRACKET, Flex Hose Support
Fabricate from: NSN 9535-00-232-0378
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.063 Inch Thick


-3 CLAMP
0.265 DIA HOLE

NOTES:
BREAK SHARP EDGES 45° x 0.010

**Figure D-156.** Part Number 205-040-156-3 CLAMP, Hose
Fabricate from: NSN 5340-00-989-4571
Material:

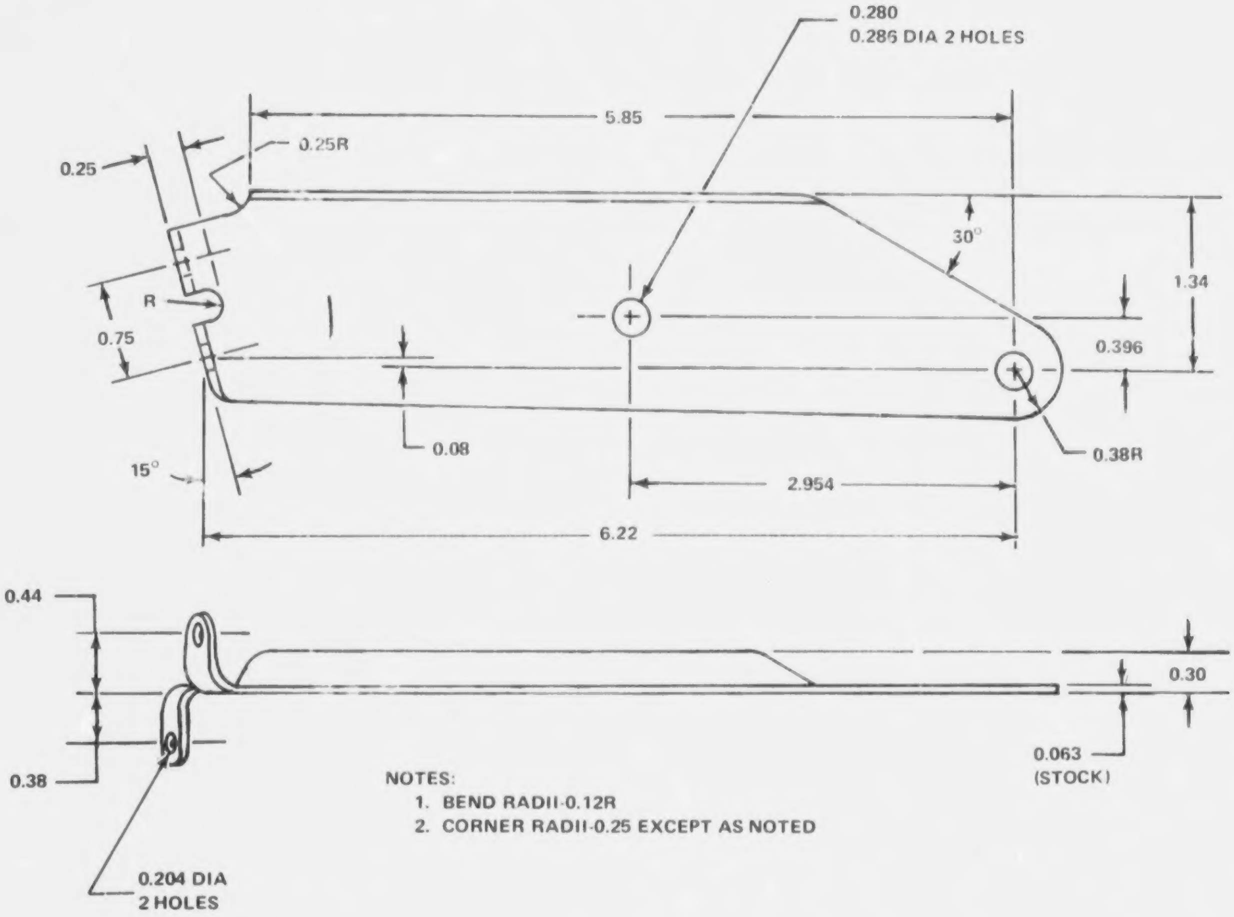

FASTENER AW5T8 NSN 5325-00-432-9810
GROMMET GH5 NSN 5325-00-141-4002
.51 REF
0.69 REF
A
A
A REF
0.04
0.12
0.61
DETAIL A-A
B
C
3.62
7.25
4.00 TYP
45° TYP
1.00 R TYP
0.311
0.318
DIA HOLE 2 REQ'D
FOR HINGE HALF USE MS20257P2-725 NSN 5340-00-250-4970 AND CUT TO 7.25 IN. LG TO MATE WITH EXISTING HINGE HALF. DRILL 7 HOLES EQ SPACED FOR MS20426AD3 RIVET. HOLES TO BE DRILLED AT TIME OF INSTALLATION.
205-030-245-69 DOOR
205-030-245-63 DOOR
FABRICATE FROM NSN 9535-00-167-2278

NOTES:
1. APPLY A CHEMICAL FILM NSN 8030-00-829-0376 TM 55-405-3 MANUAL
2. APPLY 1 COAT ZINC CHROMATE PRIMER NSN 8010-00-899-8825 PER TB 746-93-2, FOLLOWING APPLICATION OF CHEMICAL FILM

| PART NUMBER | A | B | C |
|---|---|---|---|
| 205-030-245-67 | 6.97 | 6.83 | 3.56 |
| 205-030-245-61 | 7.35 | 7.24 | 3.74 |

DOOR ASSEMBLY

Figure D-157.


0.280
0.286 DIA 2 HOLES
5.85
0.25R
0.25
30°
1.34
R
0.75
0.396
0.08
0.38R
15°
2.954
6.22
0.44
0.30
0.063
(STOCK)
0.38
0.204 DIA
2 HOLES

NOTES:
1. BEND RADII-0.12R
2. CORNER RADII-0.25 EXCEPT AS NOTED

**Figure D-158.** Part Number 205-040-169-1 BRACKET, Hose Support
Fabricate from: NSN 9535-00-232-0378
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.063 Inch Thick

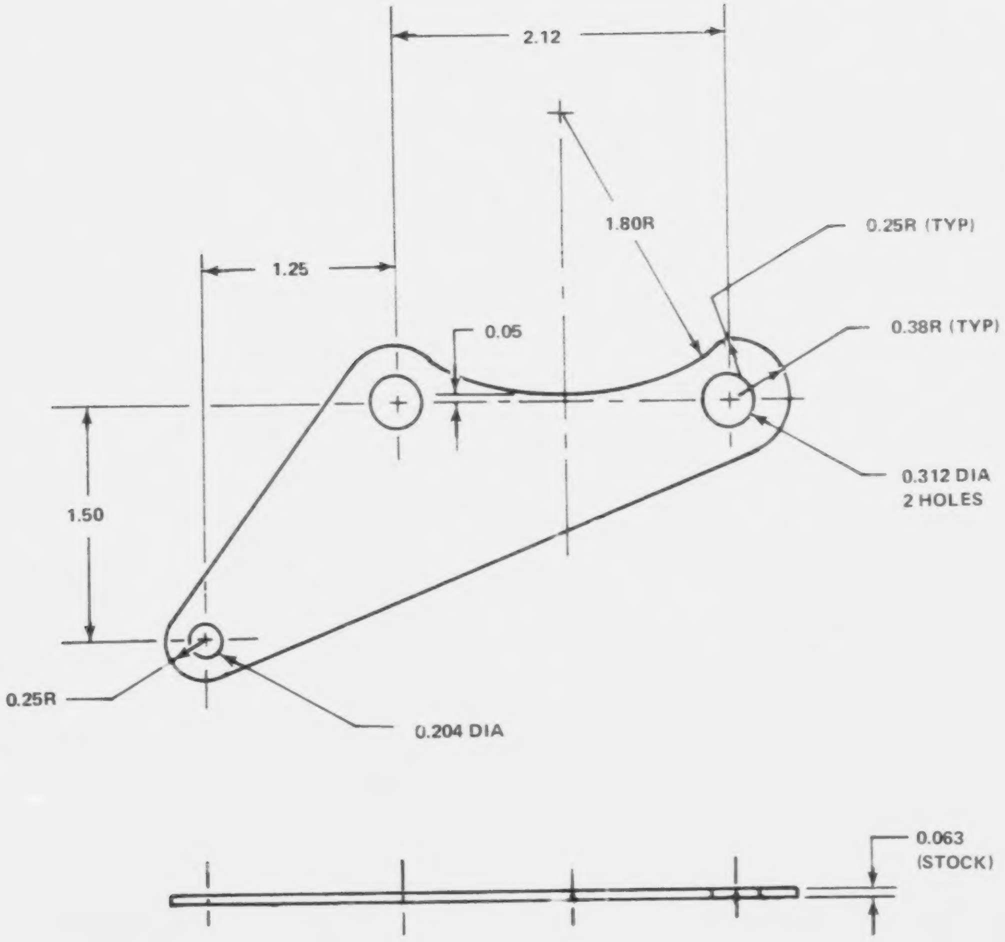

2.12
1.25
1.80R
0.25R (TYP)
0.05
0.38R (TYP)
1.50
0.312 DIA
2 HOLES
0.25R
0.204 DIA
0.063
(STOCK)

**Figure D-159.** Part Number 205-040-170-1 BRACKET, Hose Support
Fabricate from: NSN 9535-00-232-0378
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.063 Inch Thick

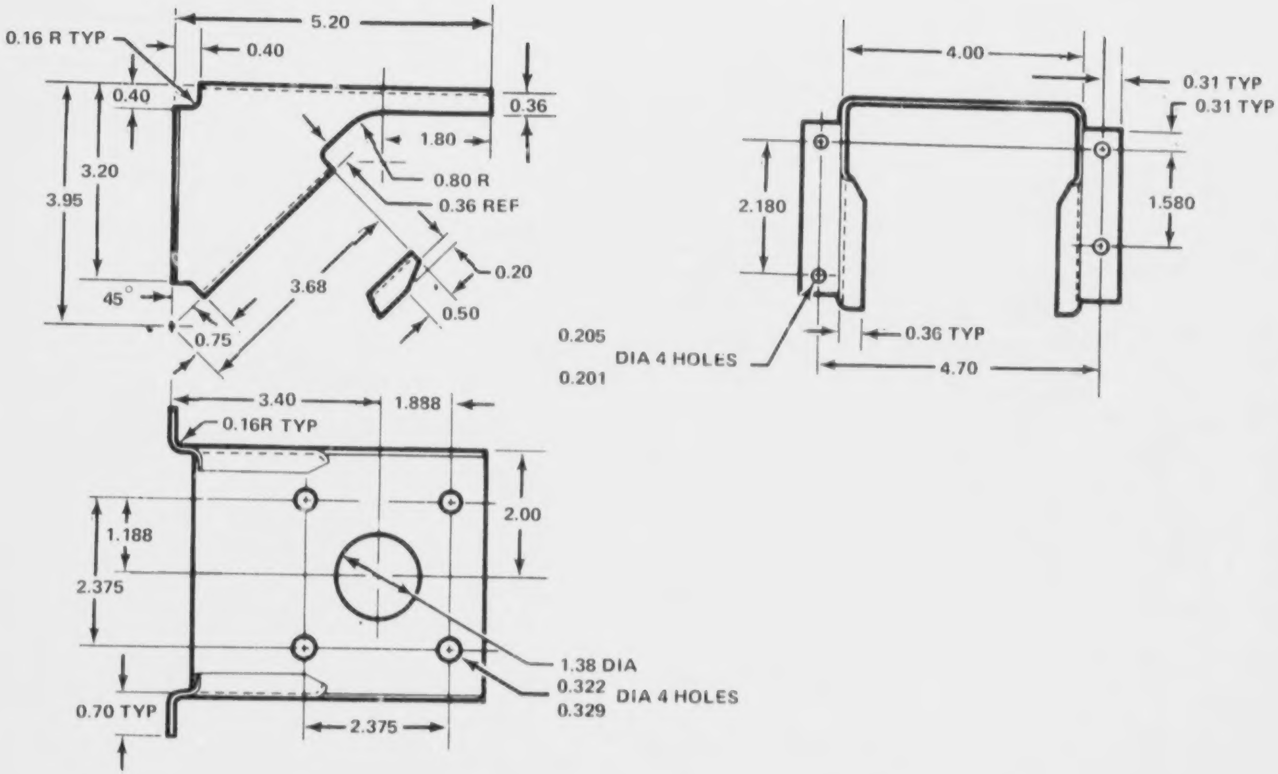

5.20
0.16 R TYP
0.40
0.40
0.36
1.80
0.80 R
0.36 REF
3.20
3.95
45°
3.68
0.20
0.50
0.75
3.40
1.888
0.16R TYP
2.00
1.188
2.375
1.38 DIA
0.322
0.329
DIA 4 HOLES
0.70 TYP
2.375
4.00
0.31 TYP
0.31 TYP
2.180
1.580
0.205
0.201
DIA 4 HOLES
0.36 TYP
4.70

**Figure D-160.** Part Number: 205-040-202-1, BRACKET, Transmission Oil Filter
Fabricate from: NSN 9535-00-167-2280
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.040 Inch Thick

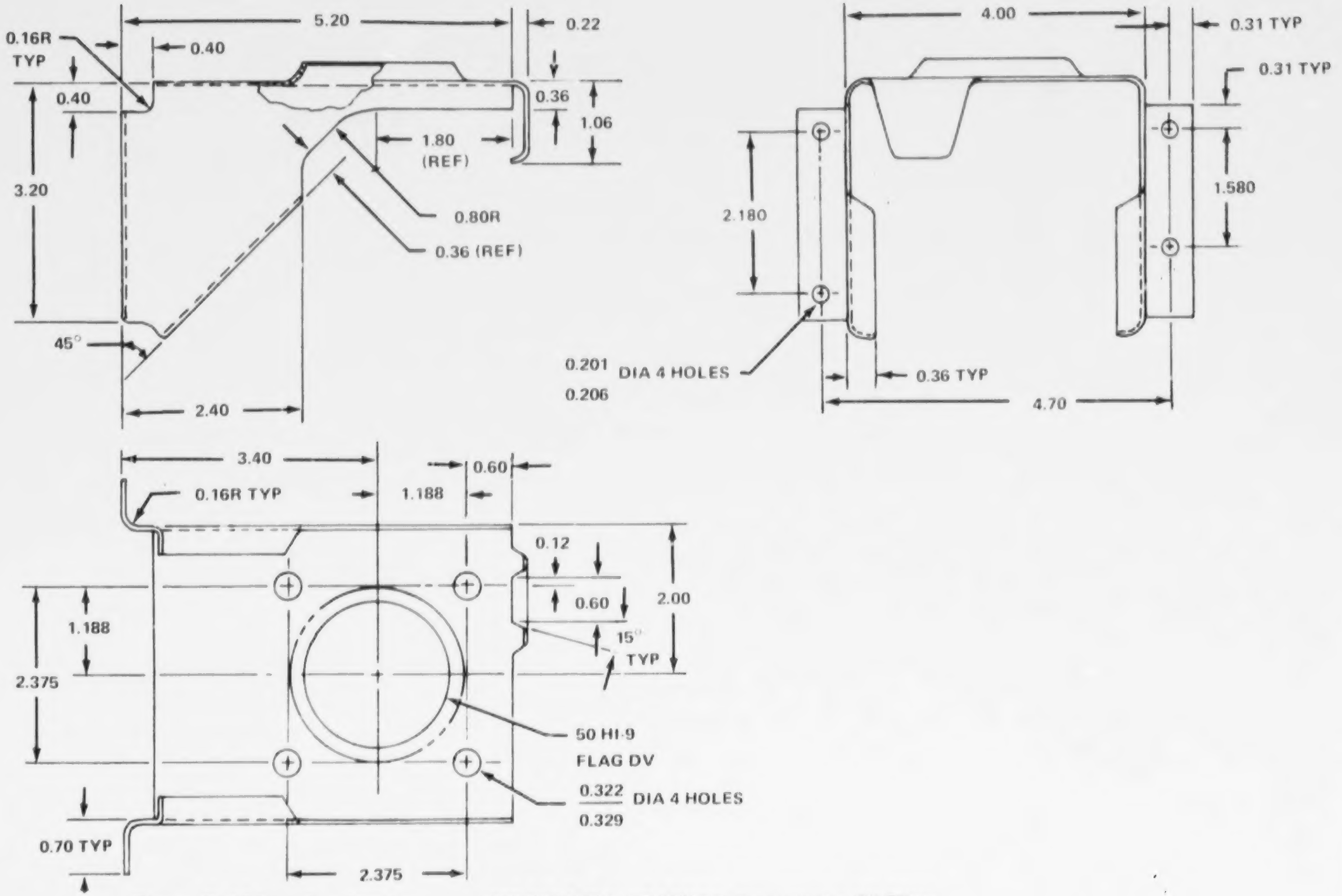

5.20
0.22
0.16R
TYP
0.40
0.40
0.36
1.06
3.20
1.80
(REF)
0.80R
0.36 (REF)
45°
2.40
4.00
0.31 TYP
0.31 TYP
2.180
1.580
0.201
0.206
DIA 4 HOLES
0.36 TYP
4.70
3.40
0.60
0.16R TYP
1.188
0.12
0.60
2.00
15°
TYP
1.188
2.375
50 HI-9
FLAG DV
0.322
0.329
DIA 4 HOLES
0.70 TYP
2.375

**Figure D-161.** Part Number 205-040-202-3, BRACKET, Transmission Oil Filter
Fabricate from: NSN 9535-00-167-2280
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.040 Inch Thick

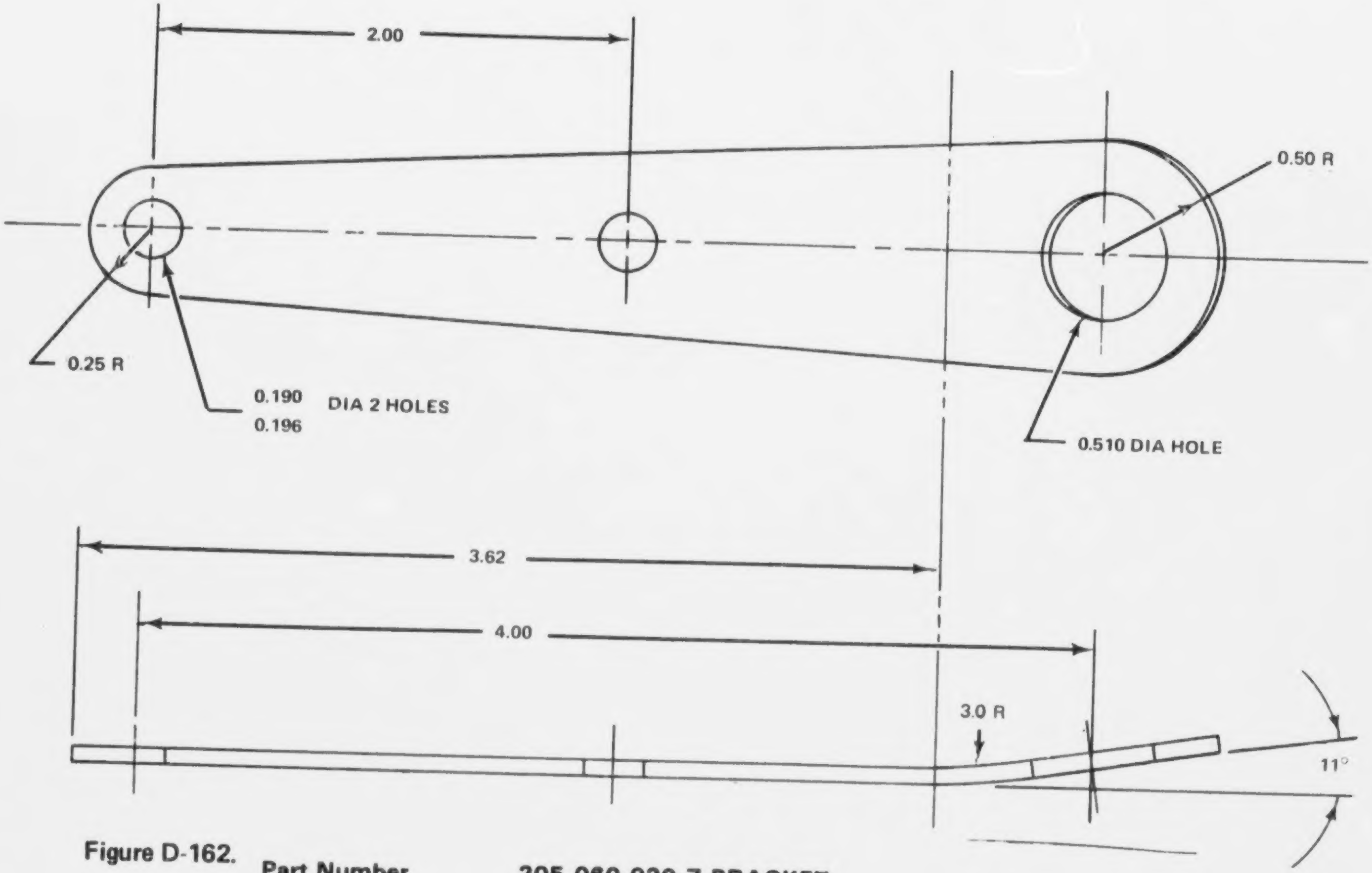

2.00
0.50 R
0.25 R
0.190
0.196
DIA 2 HOLES
0.510 DIA HOLE
3.62
4.00
3.0 R
11°

Figure D-162.

| | |
|---|---|
| Part Number | 205-060-020-7 BRACKET |
| Fabricate from: | NSN 9535-00-232-0405 |
| Material: | 2024 AL ALY Sheet, Federal Specification QQ-A-362, T3, 0.090 Inch Thick |

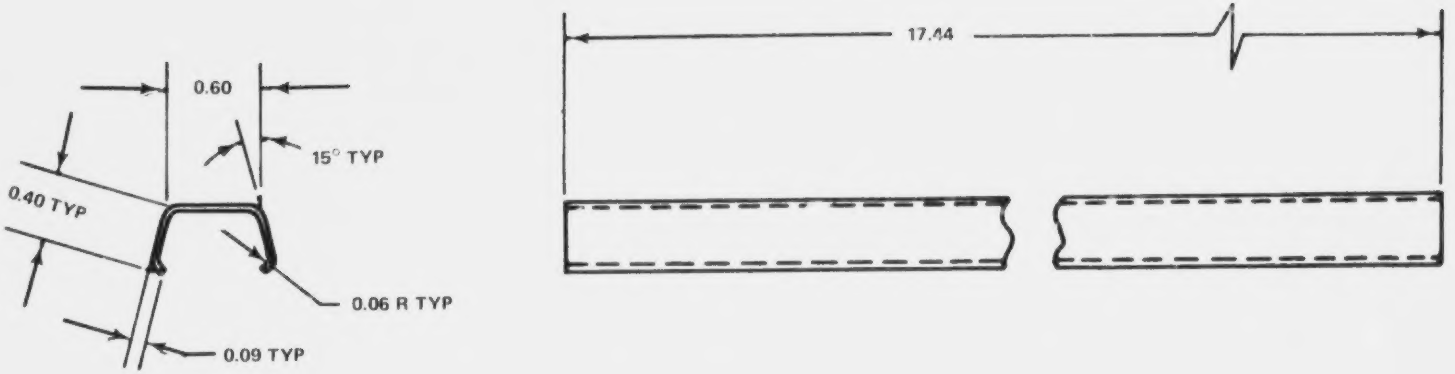
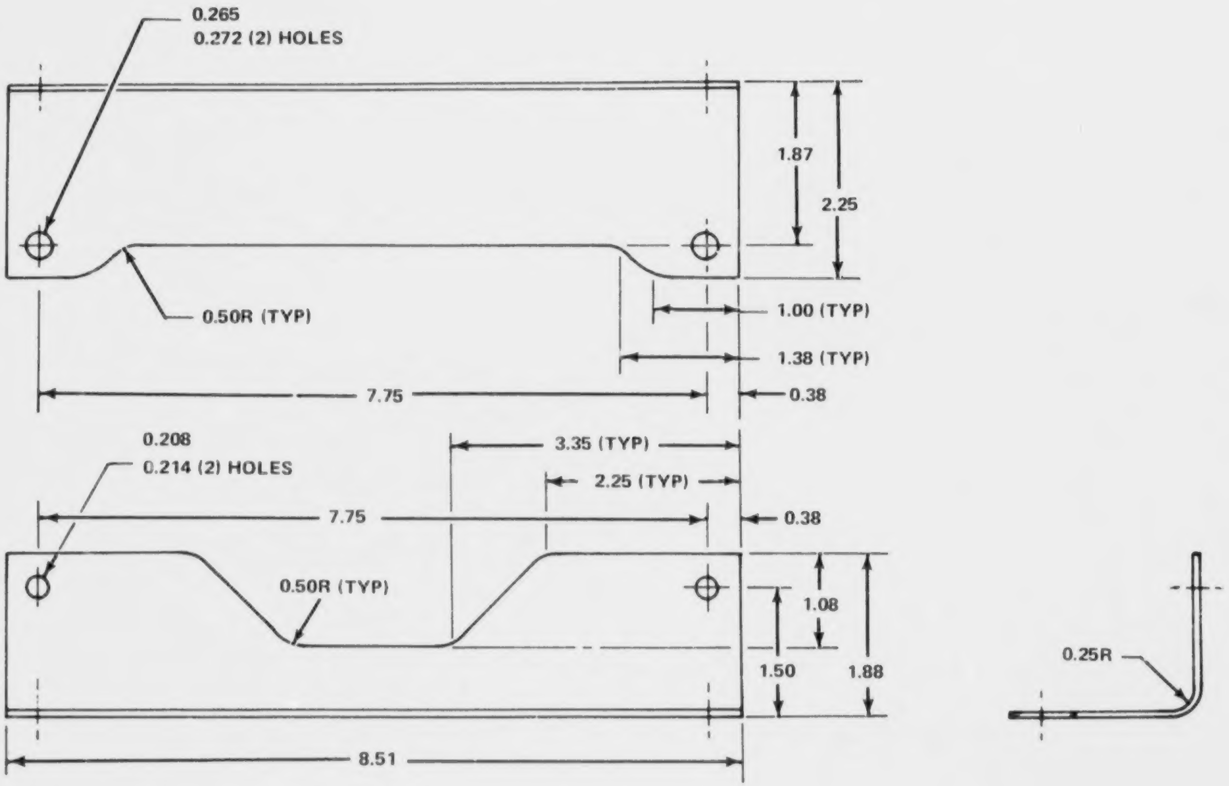

0.60
15° TYP
0.40 TYP
0.06 R TYP
0.09 TYP
17.44

**Figure D-163.** Part Number 205-060-204-1, CHANNEL RETAINER
Fabricate from: NSN 9535-00-232-0543 Zinc Chromate Finish
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.016 Inch Thick


0.265
0.272 (2) HOLES
1.87
2.25
0.50R (TYP)
1.00 (TYP)
1.38 (TYP)
7.75
0.38
0.208
0.214 (2) HOLES
3.35 (TYP)
2.25 (TYP)
7.75
0.38
0.50R (TYP)
1.08
1.50
1.88
0.25R
8.51

NOTES:
1. APPLY A CHEMICAL FILM NSN 8030-00-820-0376 PER TM 55-405-3 MANUAL.
2. APPLY TWO COATS OF ZINC CHROMATE PRIMER NSN 8010-00-899-8825 IMMEDIATELY FOLLOWING APPLICATION OF CHEMICAL FILM ALLOWING TIME FOR DRYING BETWEEN COATS.

**Figure D-164.** Part Number 205-072-264-1 BRACKET, Angle
Fabricate from: NSN 9543-00-232-0378
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/4, 0.063 Inch Thick

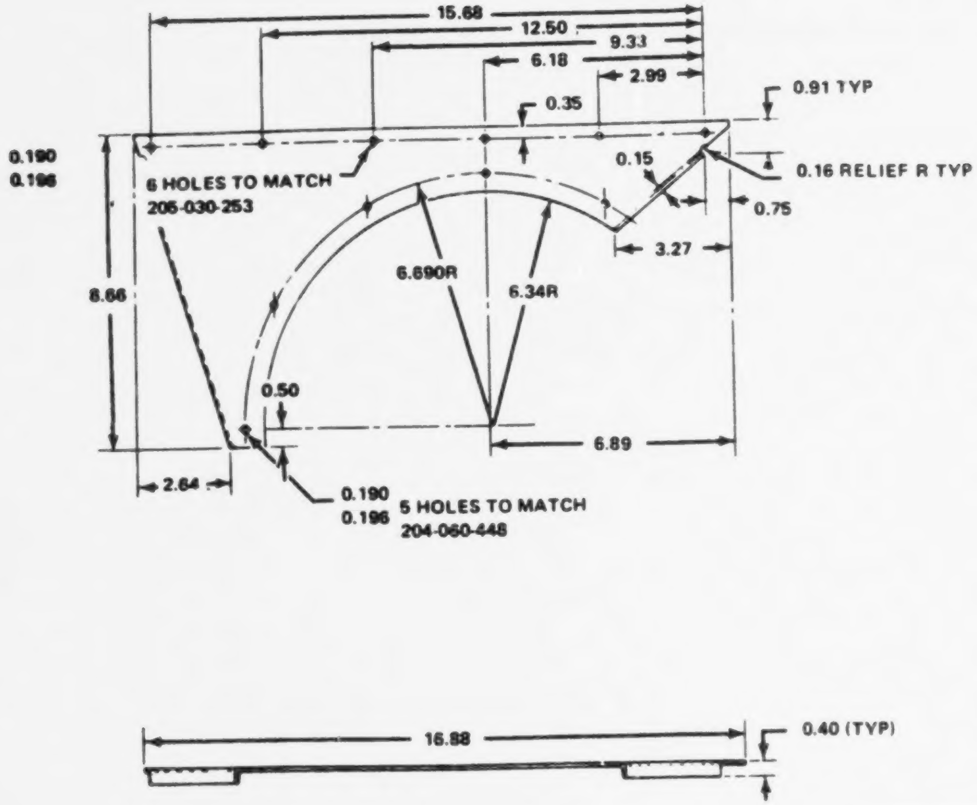
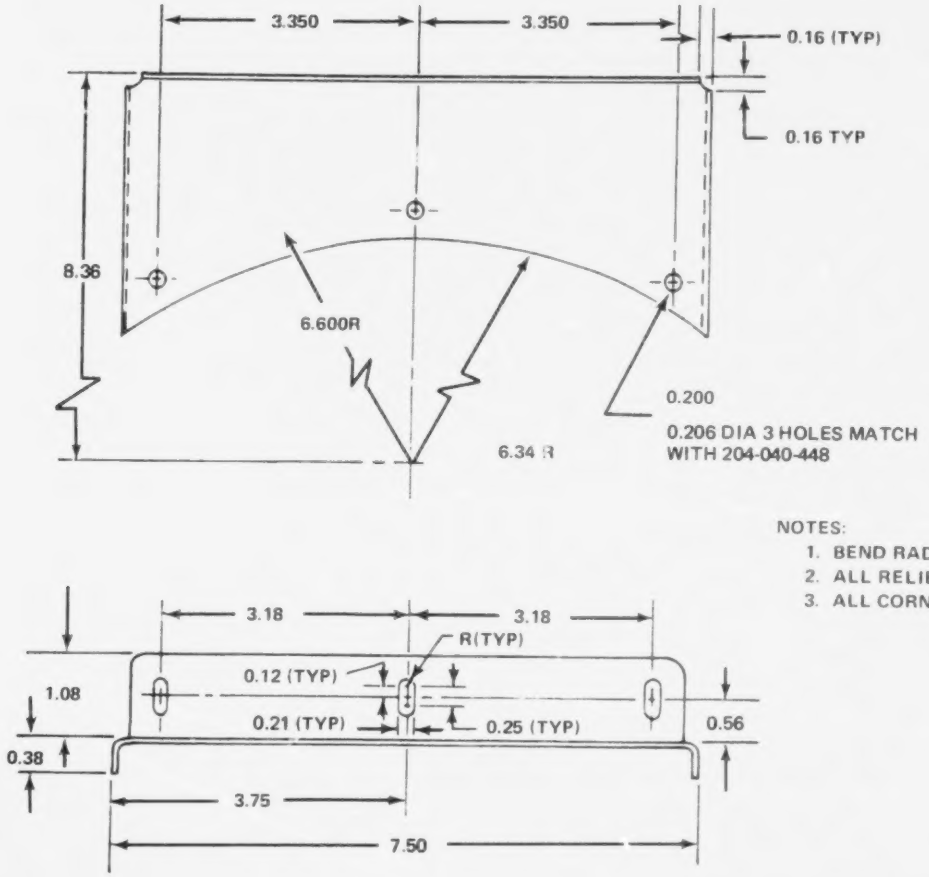

15.68
12.50
9.33
6.18
2.99
0.91 TYP
0.35
0.190
0.196
6 HOLES TO MATCH
205-030-253
0.15
0.16 RELIEF R TYP
0.75
3.27
8.66
6.690R
6.34R
0.50
6.89
2.64
0.190
0.196
5 HOLES TO MATCH
204-060-448
16.88
0.40 (TYP)

**Figure D-165.** Part Number 205-060-509-3 BRACKET, Oil Cooler Fan
Fabricate from: NSN 9535-00-232-0569 Zinc Chromate Finish
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.050 Inch Thick


3.350
3.350
0.16 (TYP)
0.16 TYP
8.36
6.600R
0.200
0.206 DIA 3 HOLES MATCH
WITH 204-040-448
6.34 R
3.18
3.18
R(TYP)
0.12 (TYP)
1.08
0.21 (TYP)
0.25 (TYP)
0.56
0.38
3.75
7.50

NOTES:
1. BEND RADII TO BE 0.09
2. ALL RELIEF RADII 0.16
3. ALL CORNER RADII 0.25

| Figure D-166. | | |
|---|---|---|
| | **Part Number** | **205-060-536-1 BRACKET, Transmission Oil Cooler** |
| | **Fabricate from:** | **NSN 9535-00-167-2278** |
| | **Material:** | **2024 AL ALY Sheet, Federal Specification QQ-A-362-T3<br>0.025 Inch Thick** |

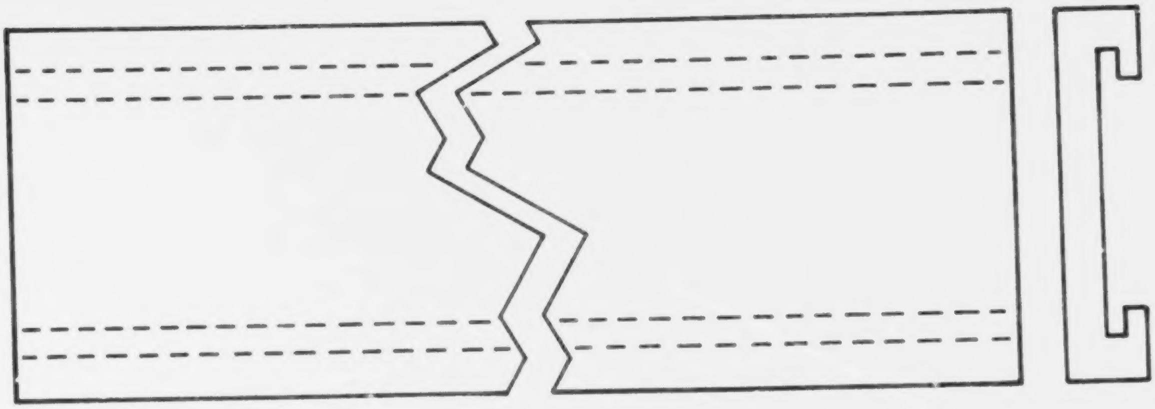


**Figure D-167.** Part Number: 205-060-540-19, PAD, Oil Tank Support Assembly
Fabricate from: NSN 9390-00-263-0061
Material: Nonmetallic Channel Synthetic Rubber, Fuel and Oil Resistant, 1-1/4 In. Wide, 2.81 In. High, 60 Inch Long

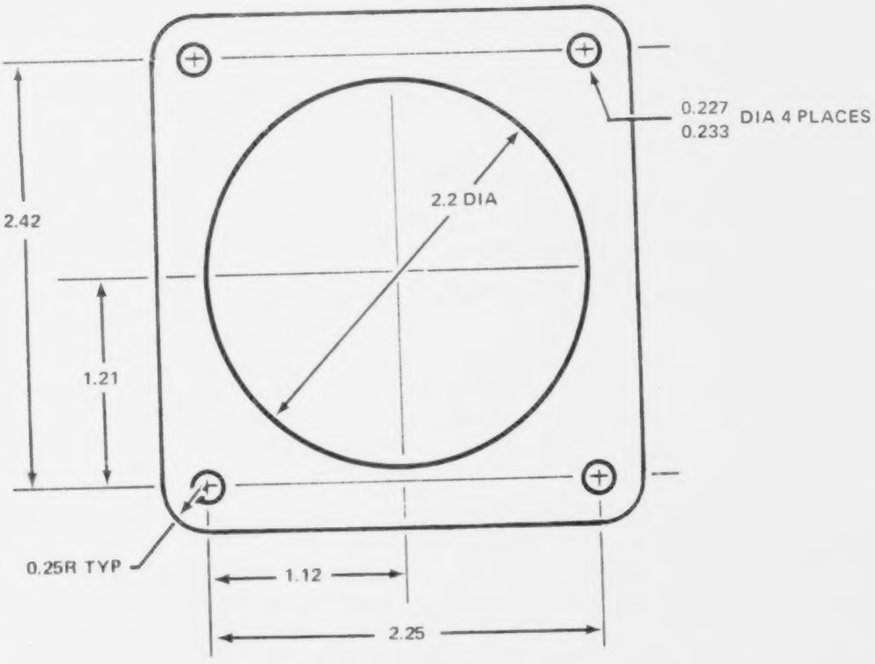
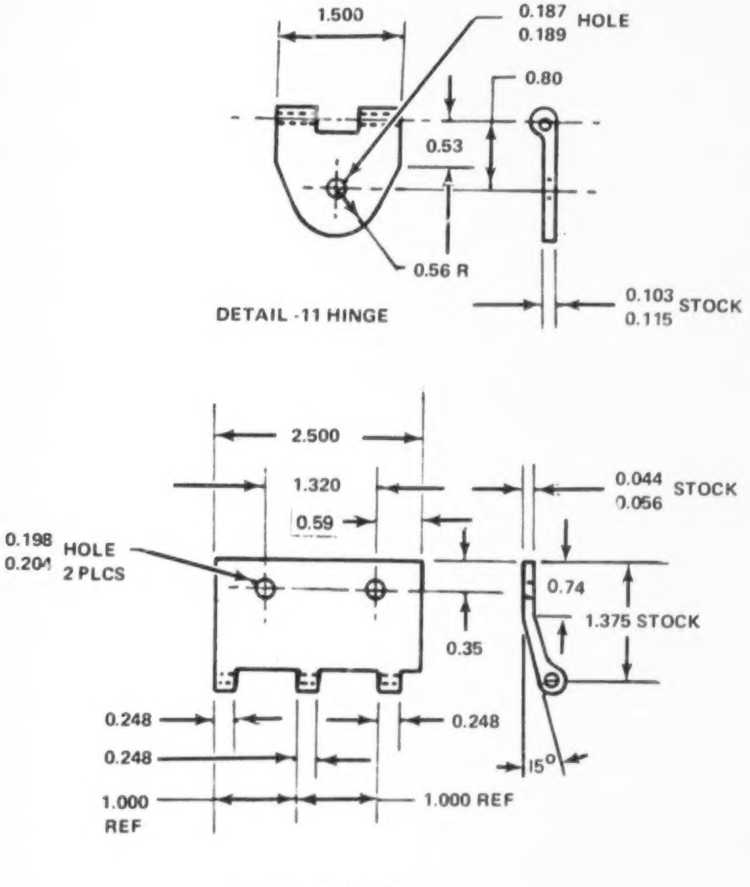

0.227
0.233
DIA 4 PLACES
2.2 DIA
2.42
1.21
0.25R TYP
1.12
2.25

**Figure D-168.** Part Number: 205-060-770-1 SHIM, Jackshaft Support
Fabricate from: NSN 9535-00-167-2279
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-362-T3, 0.032 Inch Thick


1.500
0.187
0.189
HOLE
0.80
0.53
0.56 R
0.103
0.115
STOCK
2.500
1.320
0.59
0.044
0.056
STOCK
0.198
0.204
HOLE
2 PLCS
0.74
1.375 STOCK
0.35
0.248
0.248
0.248
1.000
REF
1.000 REF
15°

DETAIL -11 HINGE

DETAIL -13 FITTING
2 REQ'D

**Figure D-169.** **Part Number** **205-060-802-11 HINGE**
**Fabricate from:** **NSN 5340-00-687-7586**
**Part Number** **205-060-802-13 FITTING**
**Fabricate from:** **NSN 5340-00-947-9874**

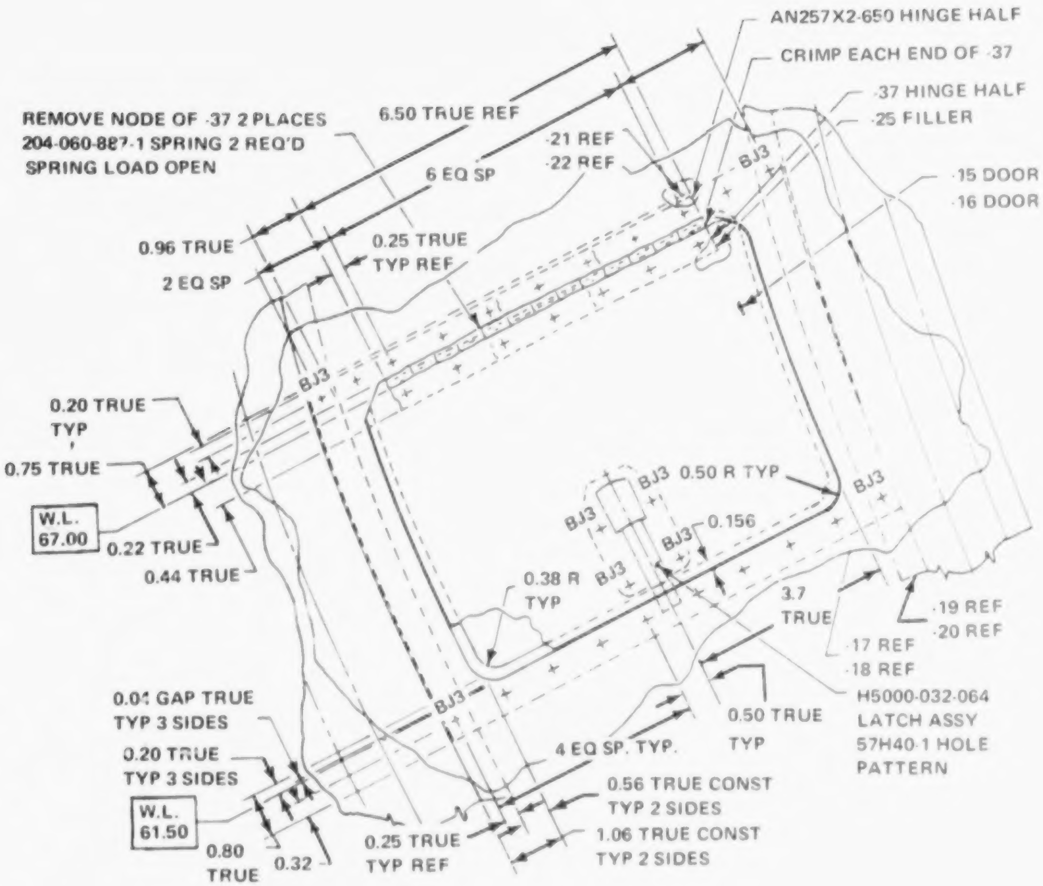
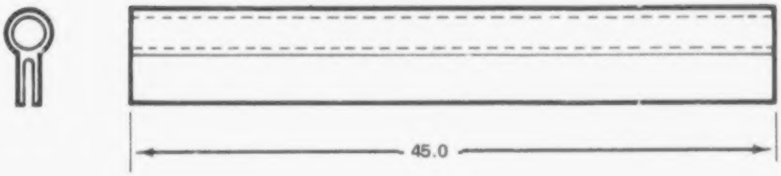
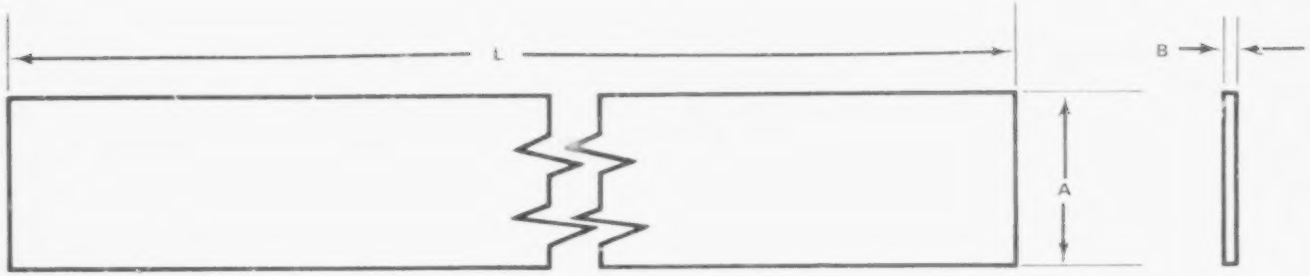

AN257X2-650 HINGE HALF
CRIMP EACH END OF -37
-37 HINGE HALF
-25 FILLER
REMOVE NODE OF -37 2 PLACES
204-060-887-1 SPRING 2 REQ'D
SPRING LOAD OPEN
6.50 TRUE REF
-21 REF
-22 REF
6 EQ SP
BJ3
-15 DOOR
-16 DOOR
0.96 TRUE
0.25 TRUE
TYP REF
2 EQ SP
BJ3
0.20 TRUE
TYP
0.75 TRUE
W.L.
67.00
0.22 TRUE
0.44 TRUE
BJ3
0.50 R TYP
BJ3
BJ3
0.156
BJ3
BJ3
0.38 R
TYP
3.7
TRUE
-19 REF
-20 REF
-17 REF
-18 REF
BJ3
0.04 GAP TRUE
TYP 3 SIDES
0.20 TRUE
TYP 3 SIDES
W.L.
61.50
0.80
TRUE
0.32
4 EQ SP. TYP.
0.50 TRUE
TYP
H5000-032-064
LATCH ASSY
57H40-1 HOLE
PATTERN
0.56 TRUE CONST
TYP 2 SIDES
0.25 TRUE
TYP REF
1.06 TRUE CONST
TYP 2 SIDES

**Figure D-170.**

| | |
|---|---|
| Part Number | 205-060-810-15<br>205-060-810-16 DOOR ASSEMBLY |
| Fabricate from: | NSN 5340-00-701-9897<br>NSN 5340-00-993-1461<br>NSN 9535-00-232-0378 |
| Material: | Leaf, Butt, Hinge, Aluminum - Make from MS20257HP2-7200 Material<br>2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.064 Inch Thick |



| | | |
|---|---|---|
| **Figure D-171.** | Part Number | 205-060-826-81, SEAL |
| | Fabricate from: | NSN 5330-00-754-7443 |
| | Material: | Extrusion, Rubber, Federal Specification MIL-R-5847, Class I |



| PART NUMBER | ITEM NAME | FABRICATE FROM NSN | A | B | L |
|---|---|---|---|---|---|
| 205-060-826-83 | GASKET | 9320-00-241-9754 | 0.500 | 0.062 | 46.00 |
| 205-060-826-85 | GASKET | 5330-00-938-1719 | 0.700 | 0.046 | 47.00 |
| 205-061-520-13 | PAD | 5330-00-530-1858 | 1.250 | 0.120 | AR |

**Figure D-172.** Part Number 205-060-826-83 GASKET
205-060-826-85

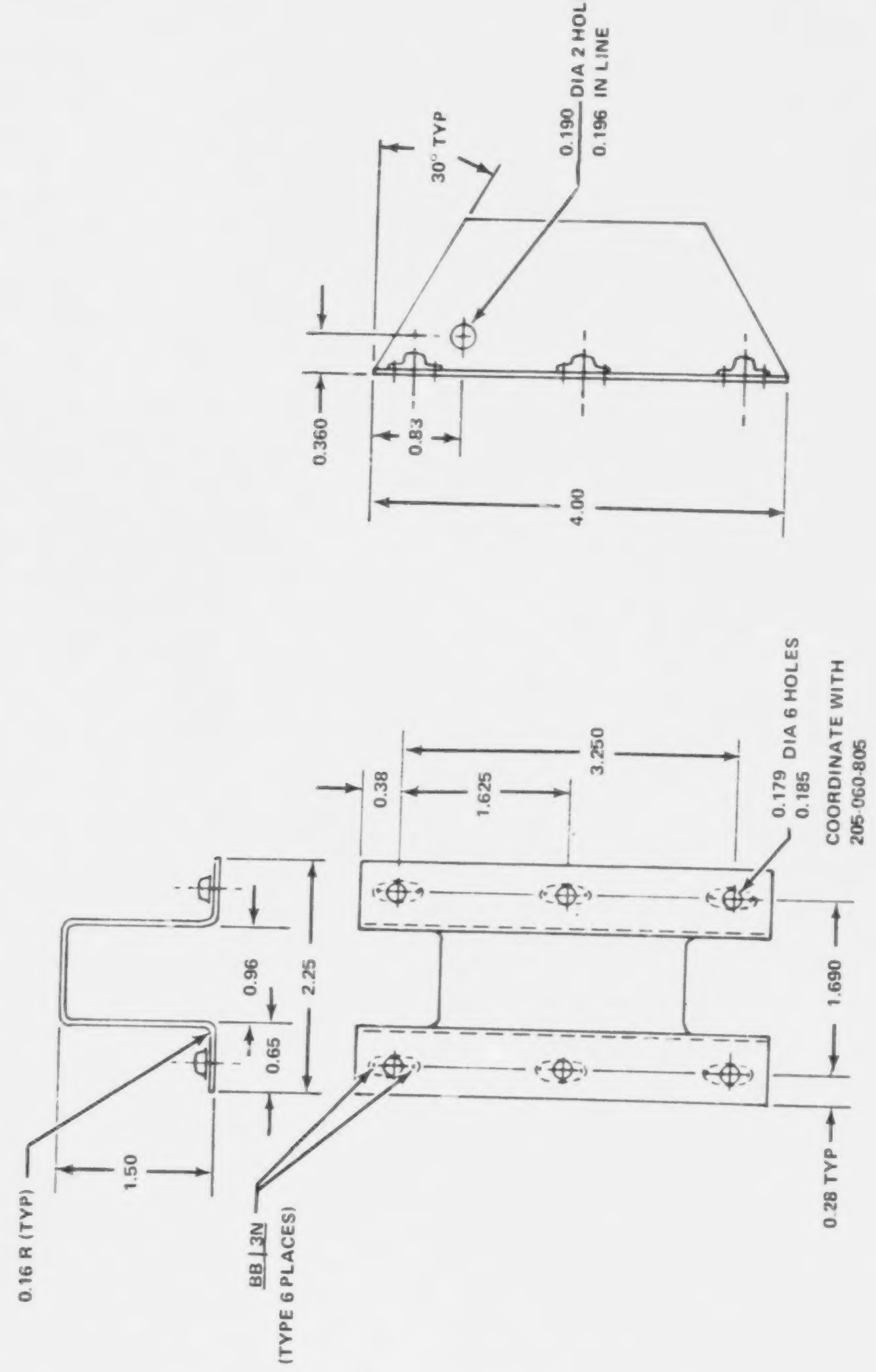

0.16 R (TYP)
1.50
BB | 3N
(TYPE 6 PLACES)
0.65
0.96
2.25
0.38
1.625
3.250
0.179
0.185
DIA 6 HOLES
COORDINATE WITH
205-060-805
1.690
0.28 TYP
0.360
0.83
4.00
30° TYP
0.190
0.196
DIA 2 HOLES
IN LINE

Figure D-173. Part Number 205-060-838-1 SUPPORT ASSEMBLY
Fabricate from: NSN 9535-00-167-2280
NSN 5310-00-584-7339
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-362, T3, 0.040 Inch Thick

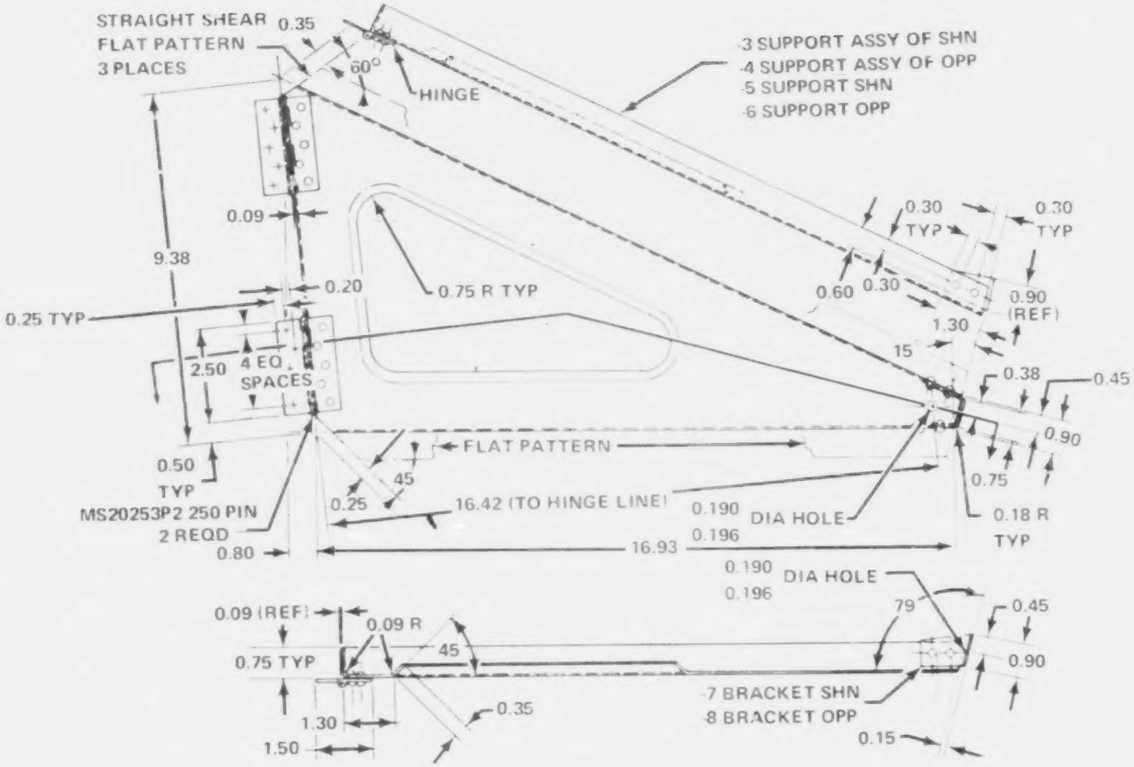

STRAIGHT SHEAR
FLAT PATTERN
3 PLACES
0.35
60°
HINGE
-3 SUPPORT ASSY OF SHN
-4 SUPPORT ASSY OF OPP
-5 SUPPORT SHN
-6 SUPPORT OPP
9.38
0.09
0.20
0.25 TYP
0.75 R TYP
2.50
4 EQ SPACES
0.50 TYP
MS20253P2 250 PIN
2 REQD
0.80
0.25
45
FLAT PATTERN
16.42 (TO HINGE LINE)
16.93
0.190
0.196
DIA HOLE
0.30 TYP
0.30 TYP
0.60
0.30
0.90 (REF)
1.30
15
0.38
0.45
0.90
0.75
0.18 R TYP
0.190
0.196
DIA HOLE
79
0.45
0.90
0.09 (REF)
0.09 R
0.75 TYP
45
0.35
1.30
1.50
-7 BRACKET SHN
-8 BRACKET OPP
0.15

Figure D-174. Part Number

**205-060-860-3 SUPPORT ASSEMBLY, Shown**
**SUPPORT, Shown, NSN 9535-00-086-9729**
**BRACKET, Shown, NSN 9535-00-640-2311**
**HINGE HALF, NSN 5340-00-543-3723**
**HINGE PIN, NSN 5340-00-838-2787**

Part Number

**205-060-860-4 SUPPORT ASSEMBLY, Opposite**
**SUPPORT, Opposite, NSN 9535-00-086-9729**
**BRACKET, Opposite, NSN 9535-00-640-2311**
**HINGE HALF, NSN 5340-00-543-3723**
**HINGE PIN, NSN 5340-00-838-2787**

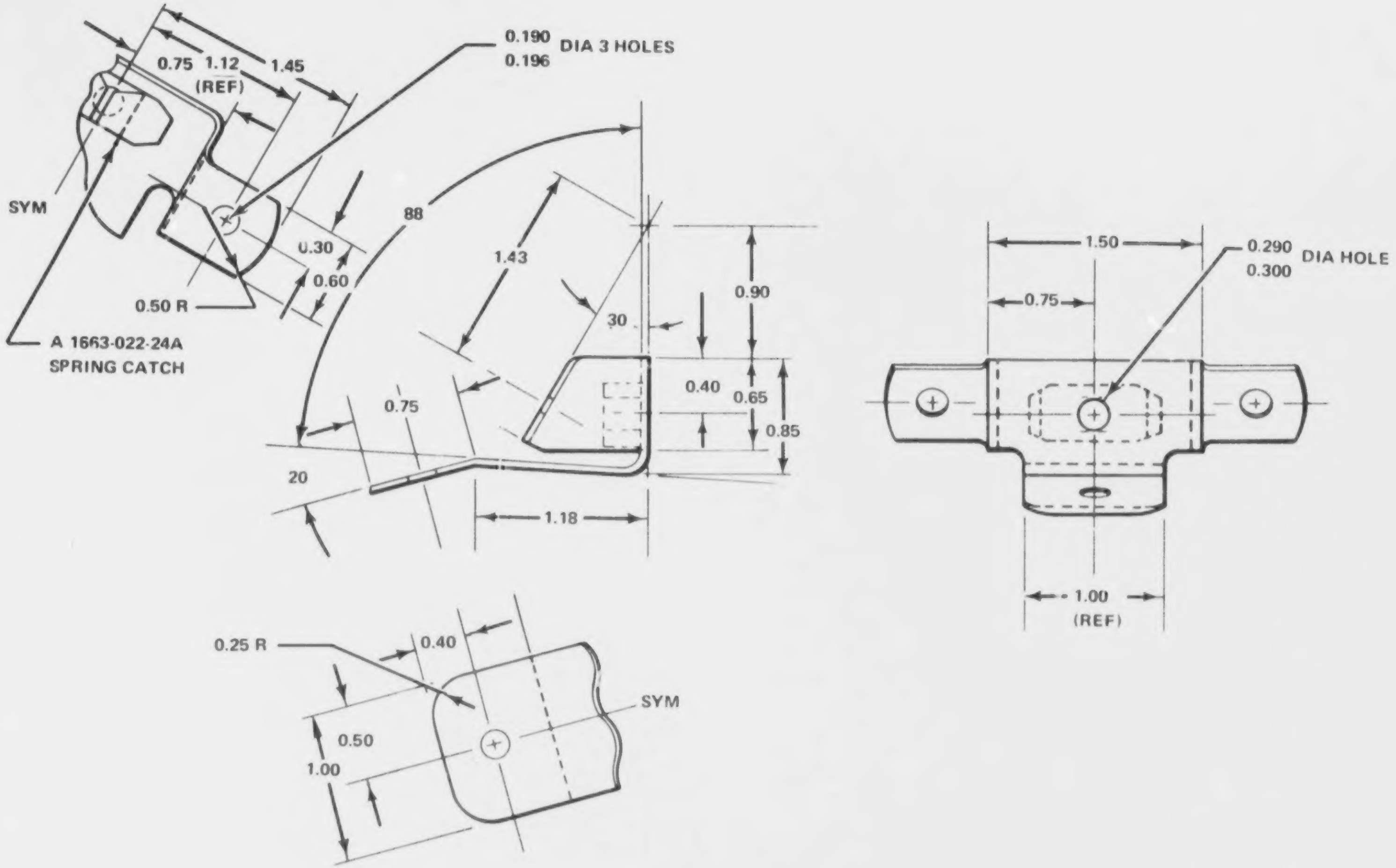

0.75
1.12
(REF)
1.45
0.190
0.196
DIA 3 HOLES
SYM
0.30
0.60
0.50 R
A 1663-022-24A
SPRING CATCH
88
1.43
30
0.90
0.40
0.65
0.85
0.75
20
1.18
1.50
0.75
0.290
0.300
DIA HOLE
1.00
(REF)
0.25 R
0.40
SYM
0.50
1.00

Figure D-175. Part Numbar 205-060-862-1 BRACKET ASSEMBLY
Fabricate from: BRACKET, NSN 9535-00-640-2311
SPRING CATCH, NSN 5340-00-634-7350
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-362, 0.050 Inch Thick
Receptacle, Friction Catch, A1663-022-24A

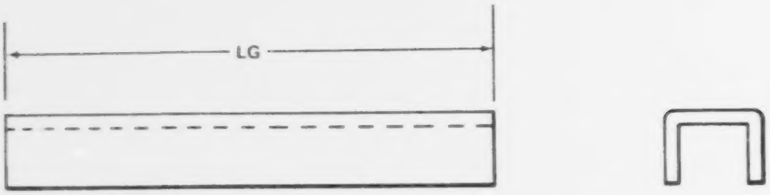


Figure D-176.

| PART NUMBER | LENGTH |
|---|---|
| 178036-3 | AR |
| 178038-3 | AR |
| 178040-3 | AR |
| 178042-3 | AR |
| 178044-3 | AR |
| 178050-3 | AR |
| 178050-5 | AR |
| 178050-7 | AR |
| 178052-3 | AR |
| 178052-5 | AR |
| 178052-7 | AR |
| ITEM NAME CHANNEL | |

| | |
|---|---|
| Fabricate from: | NSN 9320-00-107-4517 |
| Material: | Channel, Etrusion |

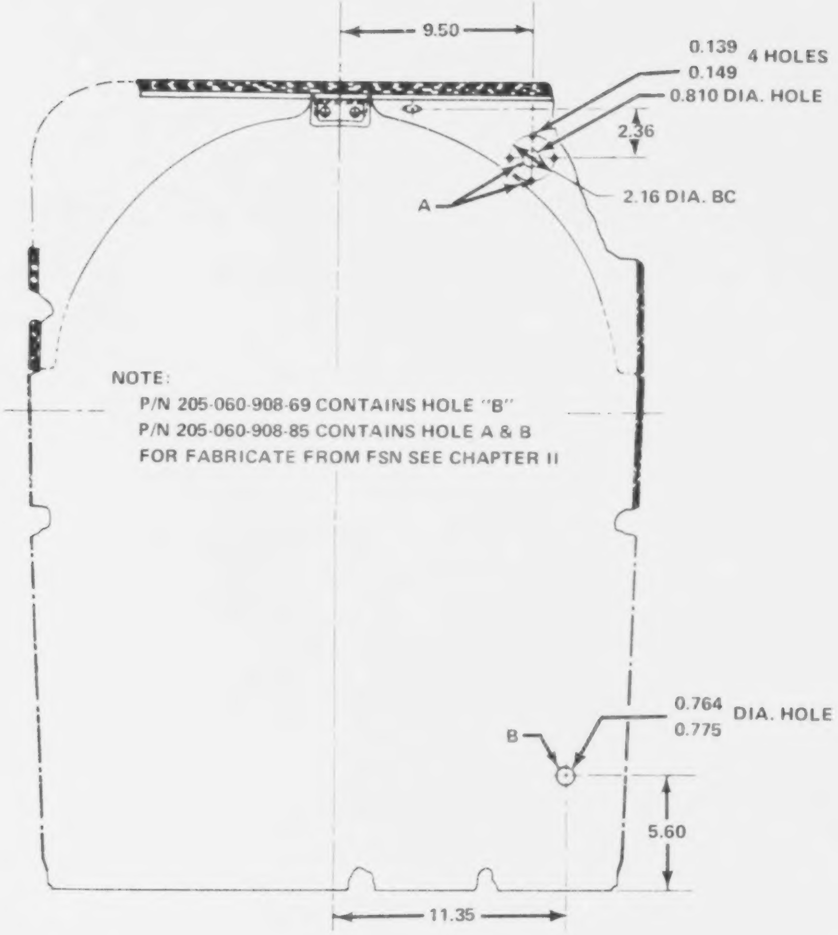

9.50
0.139
0.149
4 HOLES
0.810 DIA. HOLE
2.36
2.16 DIA. BC
A
NOTE:
P/N 205-060-908-69 CONTAINS HOLE "B"
P/N 205-060-908-85 CONTAINS HOLE A & B
FOR FABRICATE FROM FSN SEE CHAPTER II
0.764
0.775
DIA. HOLE
B
5.60
11.35

**Figure D-177.** Part Numbers 205-060-908-79 & -85 FIRE WALL ASSY'S
Fabricate from: NSN 1560-00-758-0299
P/N 205-060-908-73

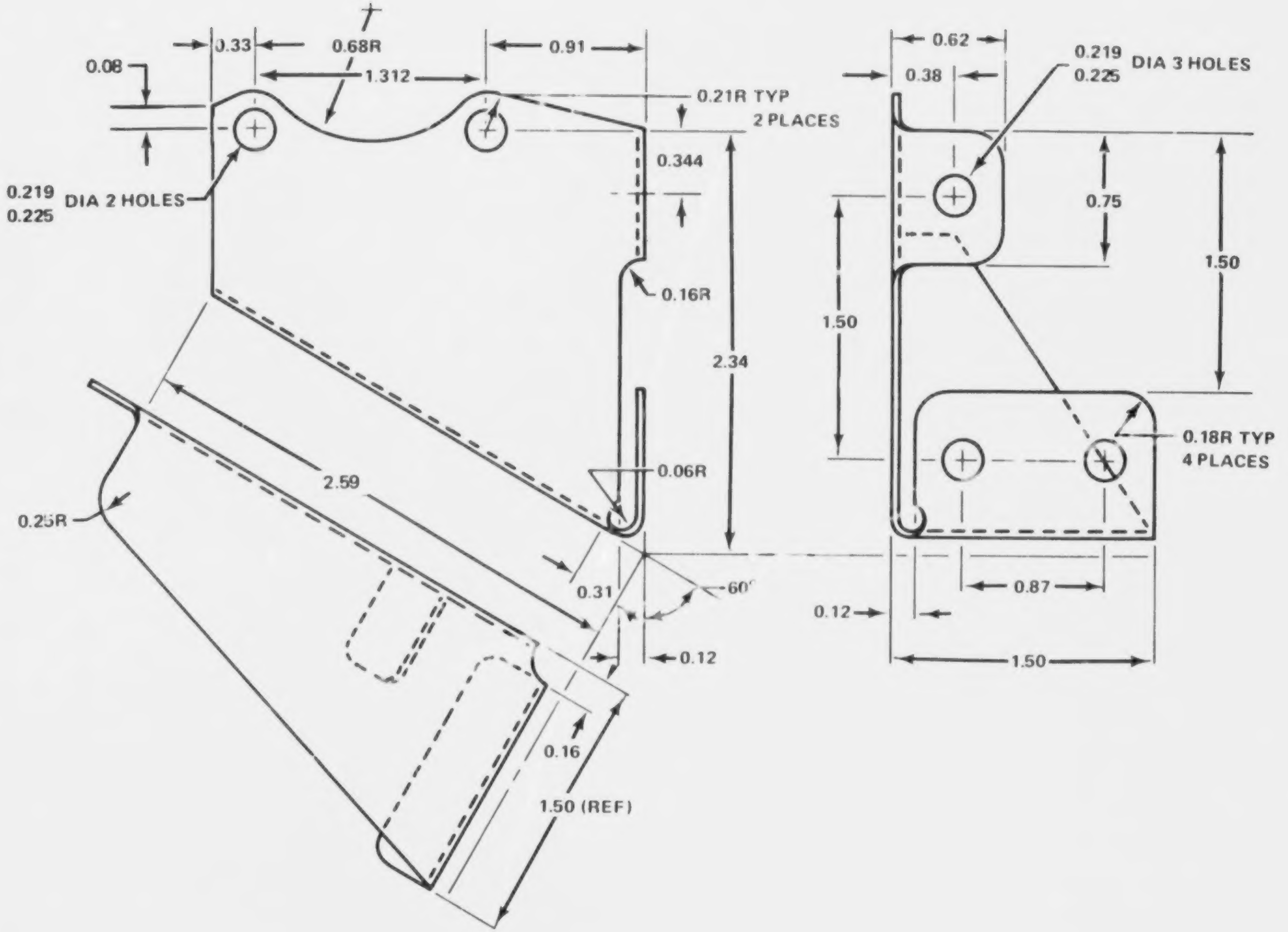

0.08
0.33
0.68R
1.312
0.91
0.21R TYP
2 PLACES
0.219
0.225
DIA 2 HOLES
0.344
0.16R
2.34
0.06R
2.59
0.25R
0.31
60°
0.12
0.16
1.50 (REF)
0.62
0.38
0.219
0.225
DIA 3 HOLES
0.75
1.50
1.50
0.18R TYP
4 PLACES
0.87
0.12
1.50

Figure D-178. Part Number: 205-060-919-3 BRACKET, Fuel System Valve
Fabricate from: NSN 9535-00-167-2278
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-362, 0.025 Inch Thick

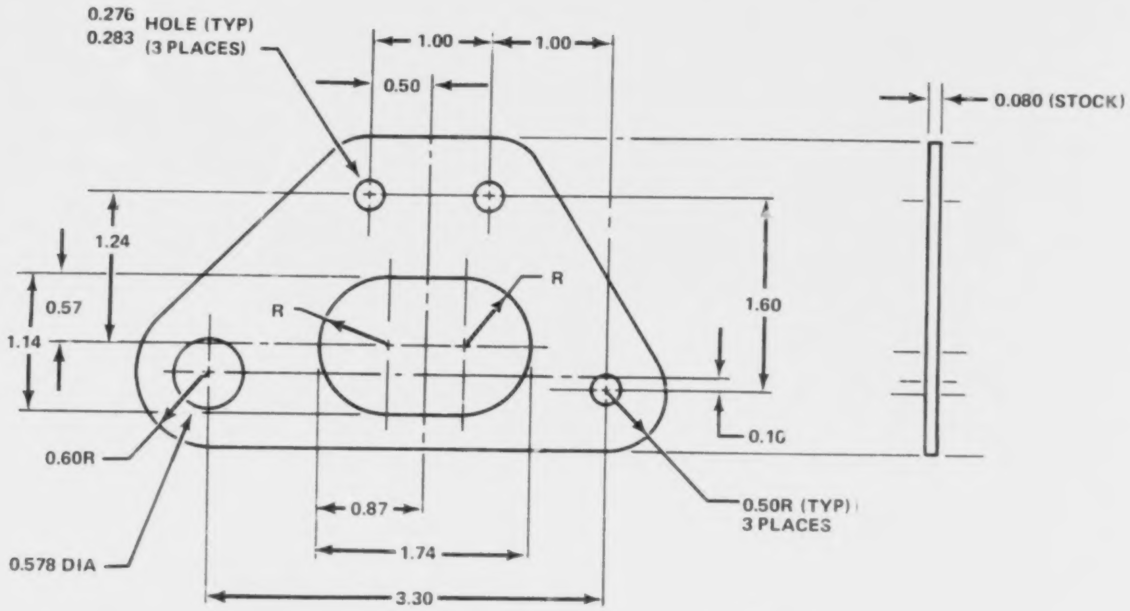
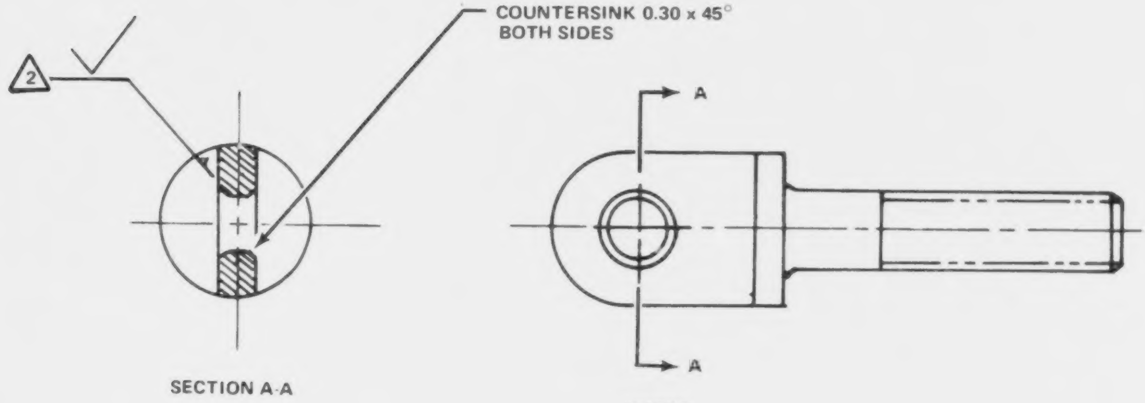

0.276
0.283
HOLE (TYP)
(3 PLACES)
1.00
1.00
0.50
0.080 (STOCK)
1.24
0.57
1.14
R
R
1.60
0.10
0.60R
0.50R (TYP)
3 PLACES
0.87
1.74
0.578 DIA
3.30

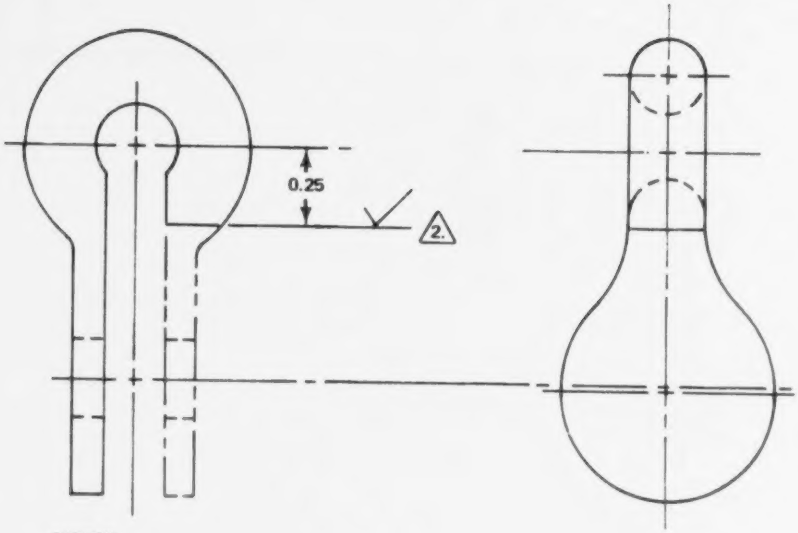
**Figure D-179.** Part Number 205-061-643-1, PLATE, Baffle, Fuel Cell
Fabricate from: NSN 9535-00-167-2247
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/4, 0.250 Inch Thick


2
COUNTERSINK 0.30 x 45°
BOTH SIDES
A
A
SECTION A-A

NOTES:

**Figure D-180.** Part Number 205-061-665-1 BOLT, Eye
Fabricate from: NSN 5306-00-260-7578
Material: Cadmium Plated Finish Class II Type I

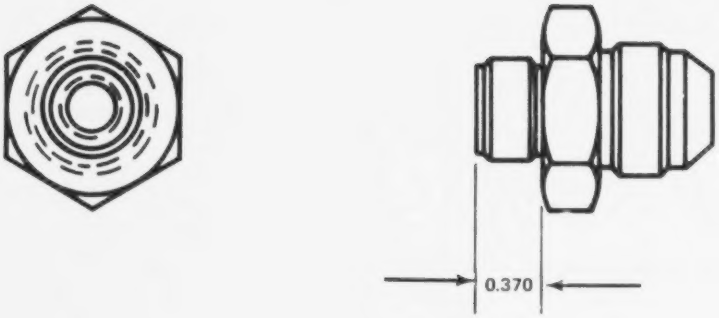
2. BREAK SHARP EDGES IN MACHINED AREA 0.10R OR CHAMFER
ALTERED FROM GOVERNMENT STANDARD PART NUMBER AN43B-5A.



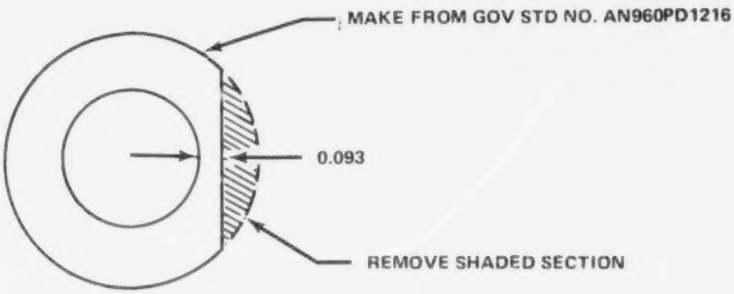
NOTES:

2. BREAK SHARP EDGES IN MACHINED AREA 0.010 R OR CHAMFER
AN 115-32 MAY BE USED AS AN ALTERNATE FOR MS 20115 F5

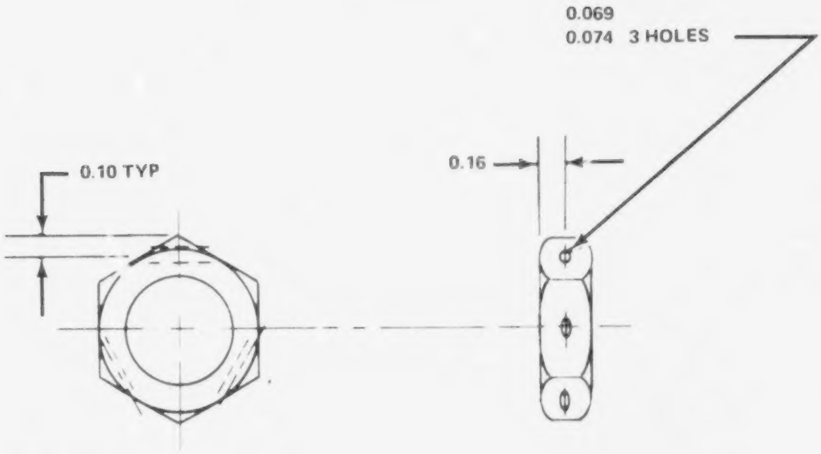
| Figure D-181. | Part Number | 205-061-666-1 HOOK |
|---|---|---|
| | Fabricate from: | NSN 4030-00-852-6408 |
| | Material: | |



| Figure D-182. | Part Number | 205-061-672-1 REDUCER, Fuel Pump Air Inlet |
|---|---|---|
| | Fabricate from: | NSN 4730-00-803-7981 |
| | Material: | |


MAKE FROM GOV STD NO. AN960PD1216
0.093
REMOVE SHADED SECTION

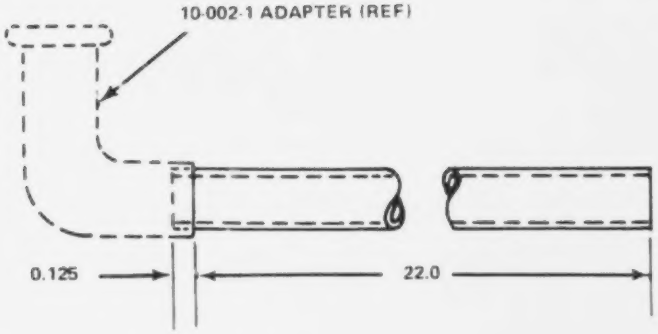
| **Figure D-183.** | Part Number | 205-061-677-1 WASHER, Bleed Air |
|---|---|---|
| | Fabricate from: | NSN 5310-00-187-2404 |
| | Material: | |


0.069
0.074 3 HOLES
0.16
0.10 TYP

NOTES:

ALTERED FROM GOVERNMENT
STANDARD PART NO. AN924-8D

| **Figure D-184.** | Part Number | 205-061-684-1, NUT |
|---|---|---|
| | Fabricate from: | NSN 5310-00-282-7835 |
| | Material: | |


10-002-1 ADAPTER (REF)
0.125
22.0

NOTE:
1. BOND WITH ADHESIVE

| | | |
|---|---|---|
| **Figure D-185.** | Part Number | 205-075-142-11 TUBE, BATTERY VENT |
| | Fabricate from: | NSN 4720-00-246-4355 |
| | Material: | |

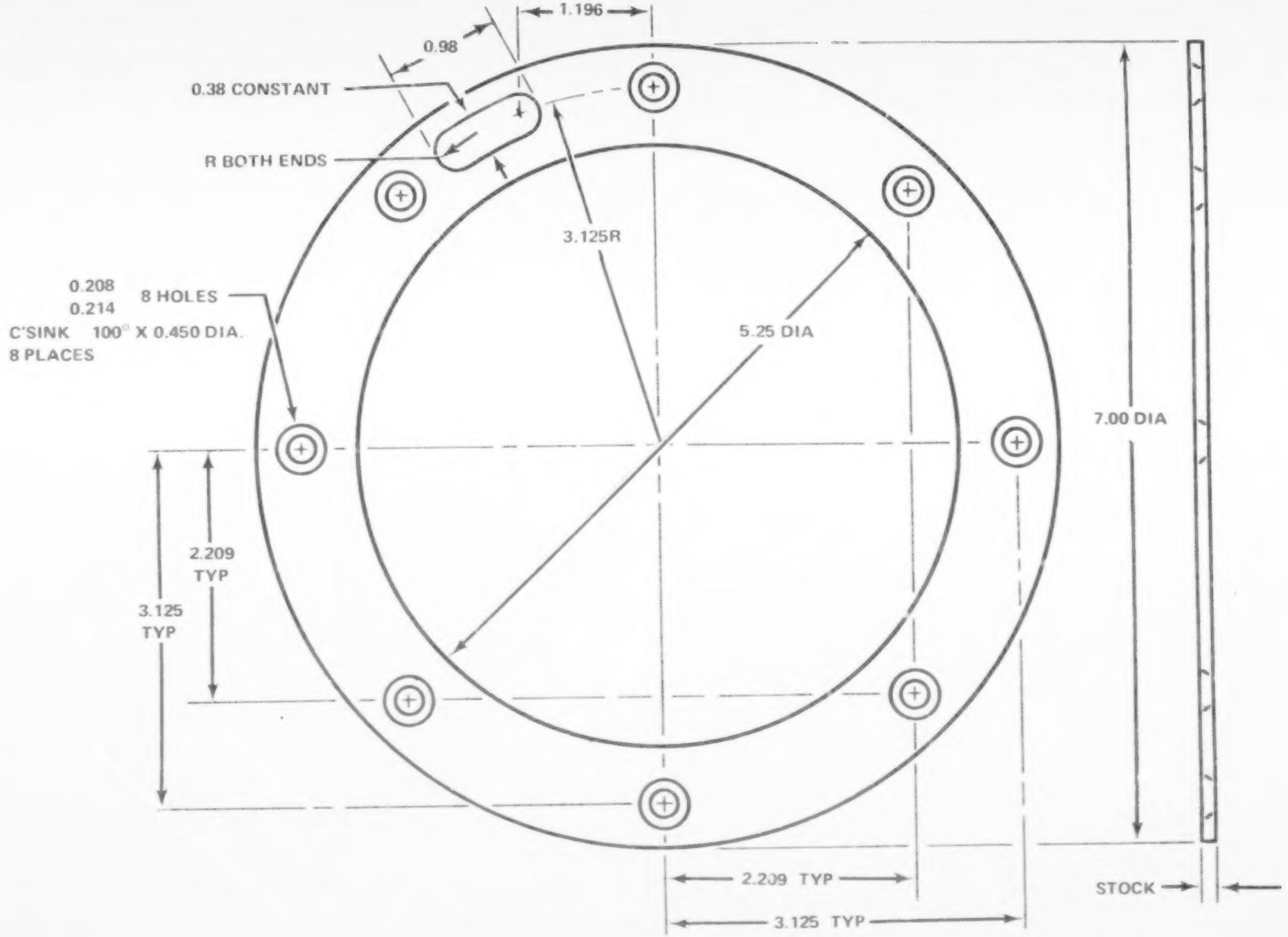

1.196
0.98
0.38 CONSTANT
R BOTH ENDS
3.125R
0.208
0.214
8 HOLES
C'SINK 100° X 0.450 DIA.
8 PLACES
5.25 DIA
7.00 DIA
2.209
TYP
3.125
TYP
2.209 TYP
3.125 TYP
STOCK

**Figure D-186.** Part Number 205-070-404-1, SPACER, Spot Heating Connector
Fabricate from. NSN 9535-00-232-0378
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.063 Inch Thick

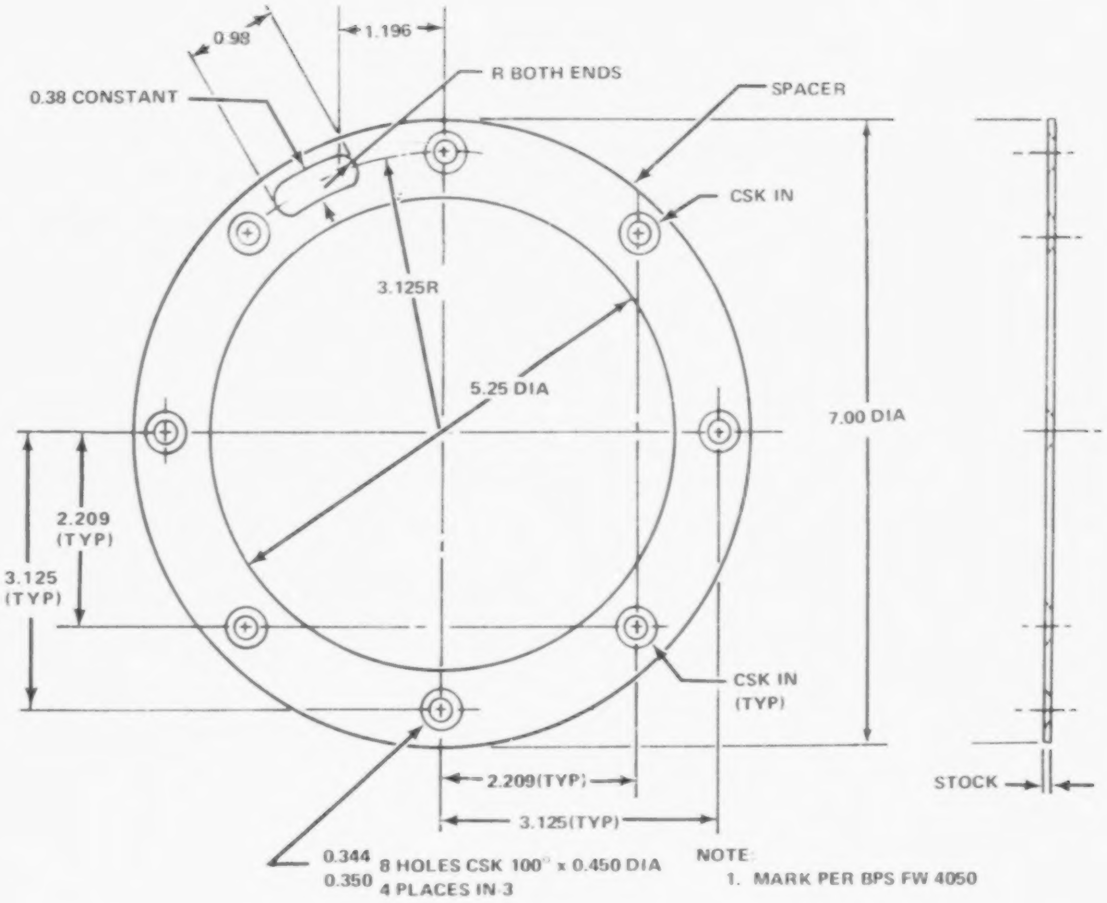

0.98
1.196
R BOTH ENDS
0.38 CONSTANT
SPACER
CSK IN
3.125R
5.25 DIA
7.00 DIA
2.209 (TYP)
3.125 (TYP)
CSK IN (TYP)
2.209(TYP)
3.125(TYP)
STOCK
0.344
0.350
8 HOLES CSK 100° x 0.450 DIA
4 PLACES IN-3
NOTE:
1. MARK PER BPS FW 4050

**Figure D-187.** Part Number: 205-070-404-3, SPACER
Fabricate from: NSN 9535-00-232-0378
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.063 Inch Thick

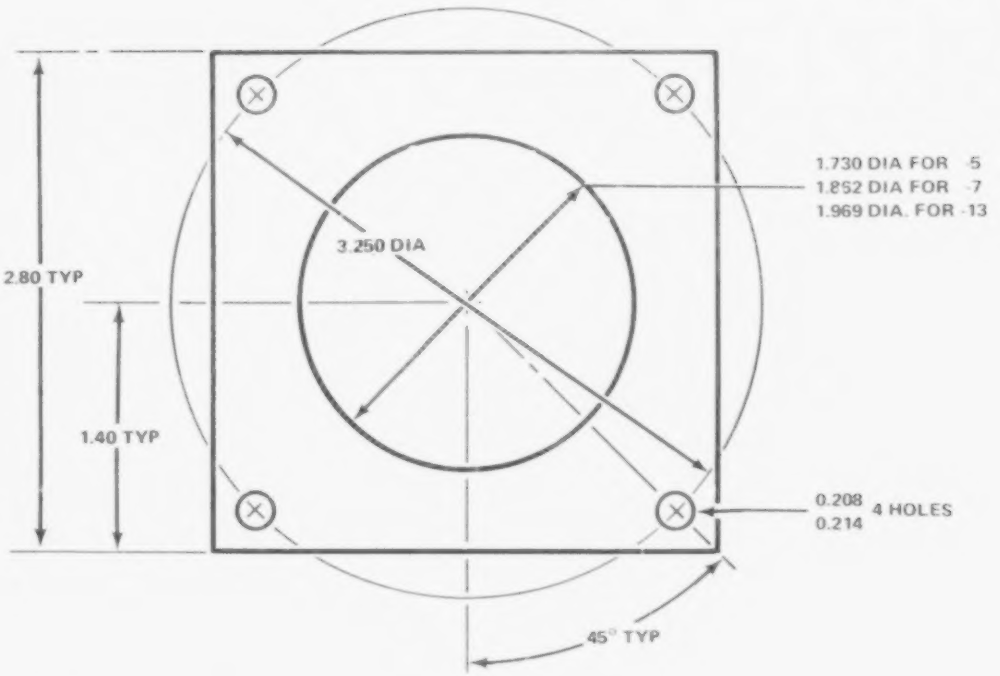
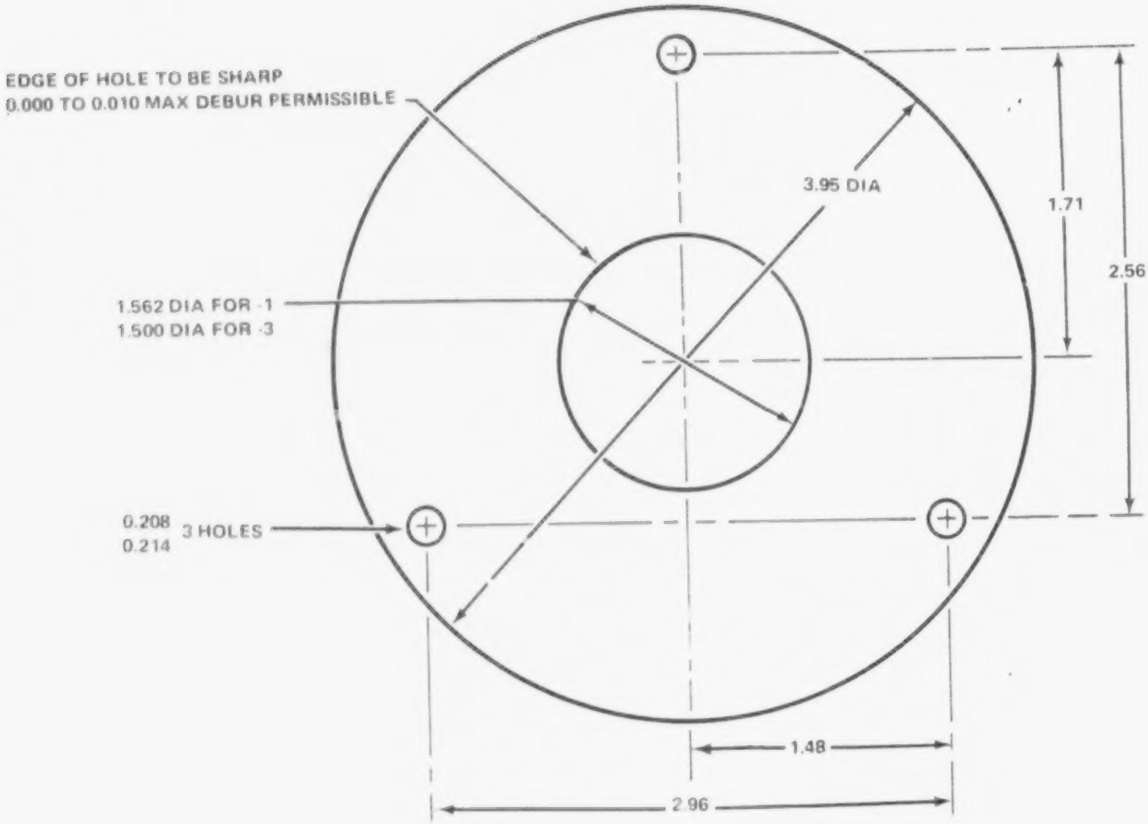
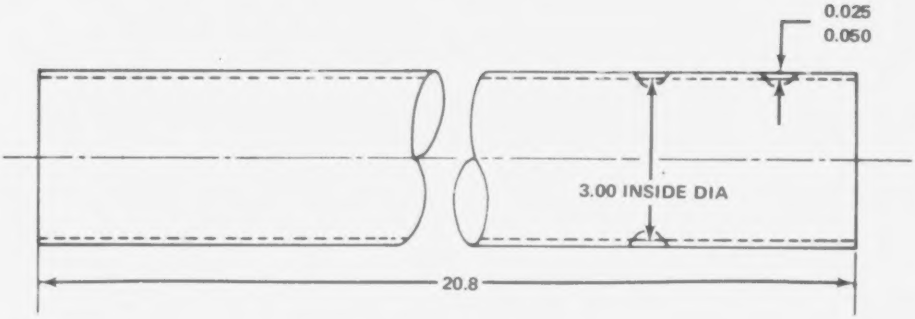

1.730 DIA FOR -5
1.852 DIA FOR -7
1.969 DIA. FOR -13
3.250 DIA
2.80 TYP
1.40 TYP
0.208
0.214
4 HOLES
45° TYP

**Figure D-188.** Part Number: 205-070-416-5, 205-070-416-7 and 205-070-416-13
ORIFICE PLATE, Air Distribution Outlet
Fabricate from: NSN 9535-00-167-2279
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.032 Inch Thick


EDGE OF HOLE TO BE SHARP
0.000 TO 0.010 MAX DEBUR PERMISSIBLE
3.95 DIA
1.71
2.56
1.562 DIA FOR -1
1.500 DIA FOR -3
0.208
0.214
3 HOLES
1.48
2.96

| **Figure D-189.** | Part Number | 205-070-430-1 and 205-070-430-3, ORIFICE,<br>Air Distribution Defrost Nozzle |
|---|---|---|
| | Fabricate from: | NSN 9535-00-167-2279 |
| | Material: | 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.032 Inch Thick |

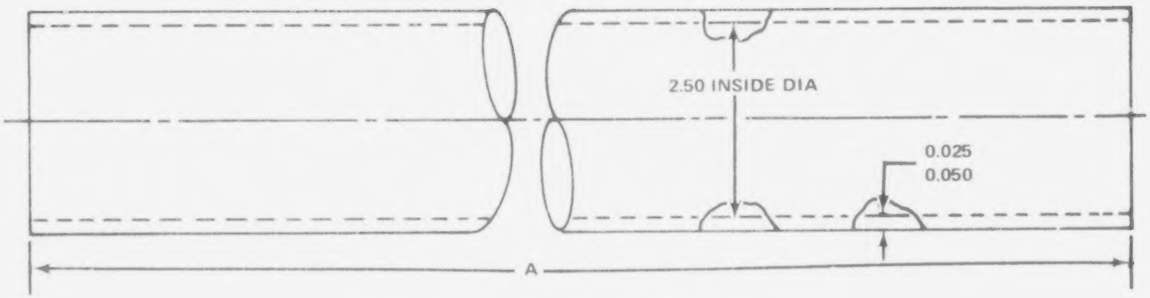


NOTES:

1. DUCT MAY BE MADE FROM MAT'L THICKNESS BEST SUITED TO MFG. METHOD
2. COLOR MAY BE MADE:
   - A. OF TWO OR MORE PARTS JOINED TOGETHER WITH ETHYLENE DICHLORIDE OR AIR WELDED
   - B. WITH JOINT PROJECTIONS (BEAD OR FLANGE) NOT TO EXCEED 0.12 HIGH OR WIDE ON THE EXTERNAL SURFACE AND TO BE FLUSH 1.20 FROM ENDS
3. DUCT TO BE AN AIRTIGHT ENCLOSURE AT 15 IN. $H_2O$ GAGE AND ROOM CONDITIONS.

**Figure D-190.**

| | |
|---|---|
| Part Number | 205-070-450-3 HOSE, Air Duct |
| Fabricate from: | NSN 4720-00-736-0985 |
| Material: | Hose Air Duct, Fiberglass Cloth 2.5 Inch ID |



| DASH NO. | DIM. A |
|---|---|
| -1 | 7.06 |
| -3 | 18.75 |

NOTES:

1. DUCT MAY BE MADE FROM MAT'L THICKNESS BEST SUITED TO MFR. METHOD
2. COLOR OF DUCT TO BE GRAY PER MATERIAL BULLETIN FW 1270
3. DUCT MAY BE MADE:
   A. OF TWO OR MORE PARTS JOINED TOGETHER WITH ETHYLENE DICHLORIDE OR AIR WELDED
   B. WITH JOINT PROJECTIONS (BEAD OR FLANGE) NOT TO EXCEED 0.12 HIGH OR WIDE ON THE EXTERNAL SURFACE AND TO BE FLUSH 1.20 FROM ENDS
4. DUCT TO BE AN AIR TIGHT ENCLOSURE AT 15 IN. $H_2O$ GAGE AND ROOM CONDITIONS

**Figure D-191.** Part Numbers 205-070-452-1, HOSE AIR DUCT
205-070-452-3
Fabricate from: NSN 4720-00-736-0985
Material: Hose Air Duct, Fiberglass Cloth 2.5 Inch ID

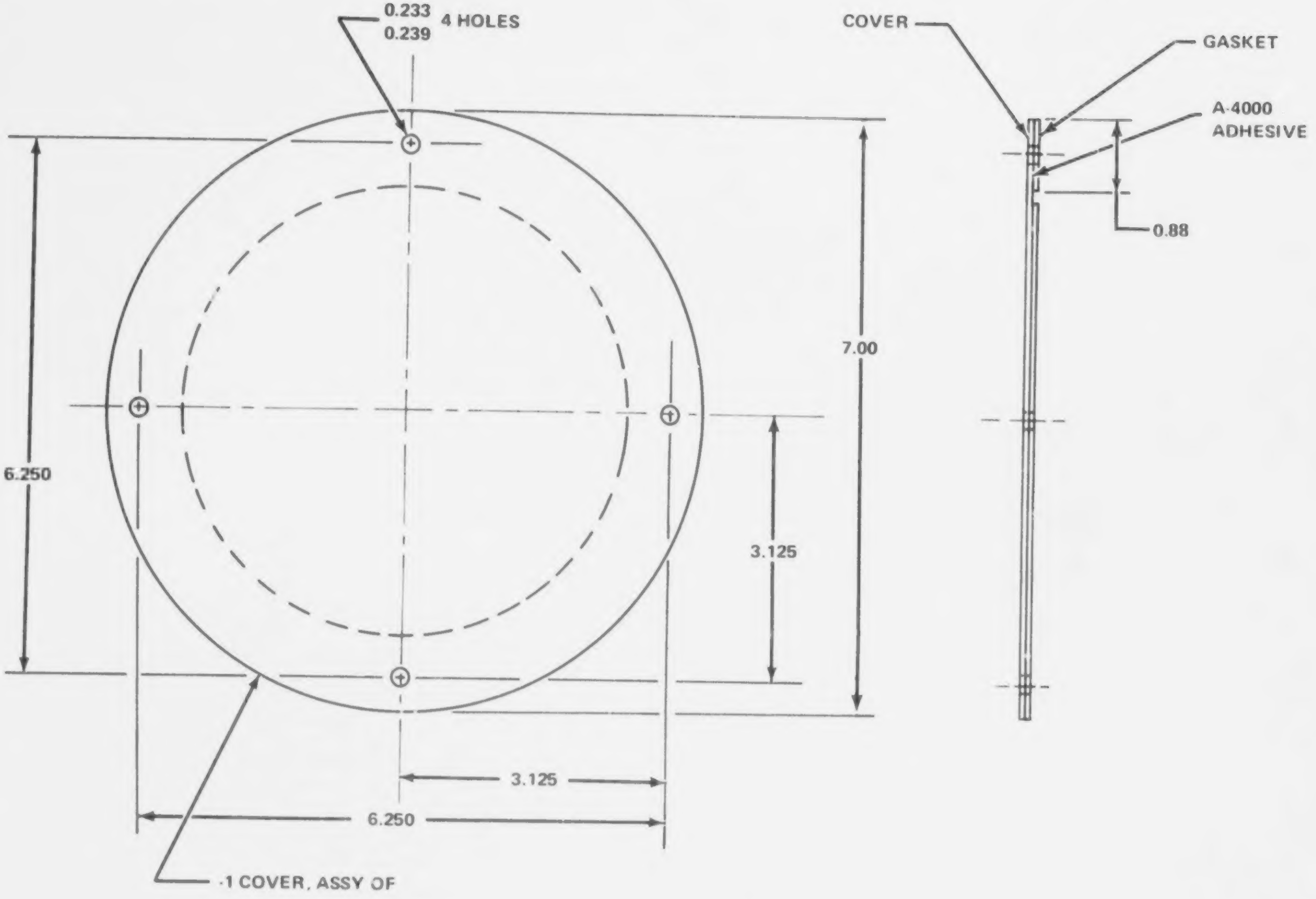
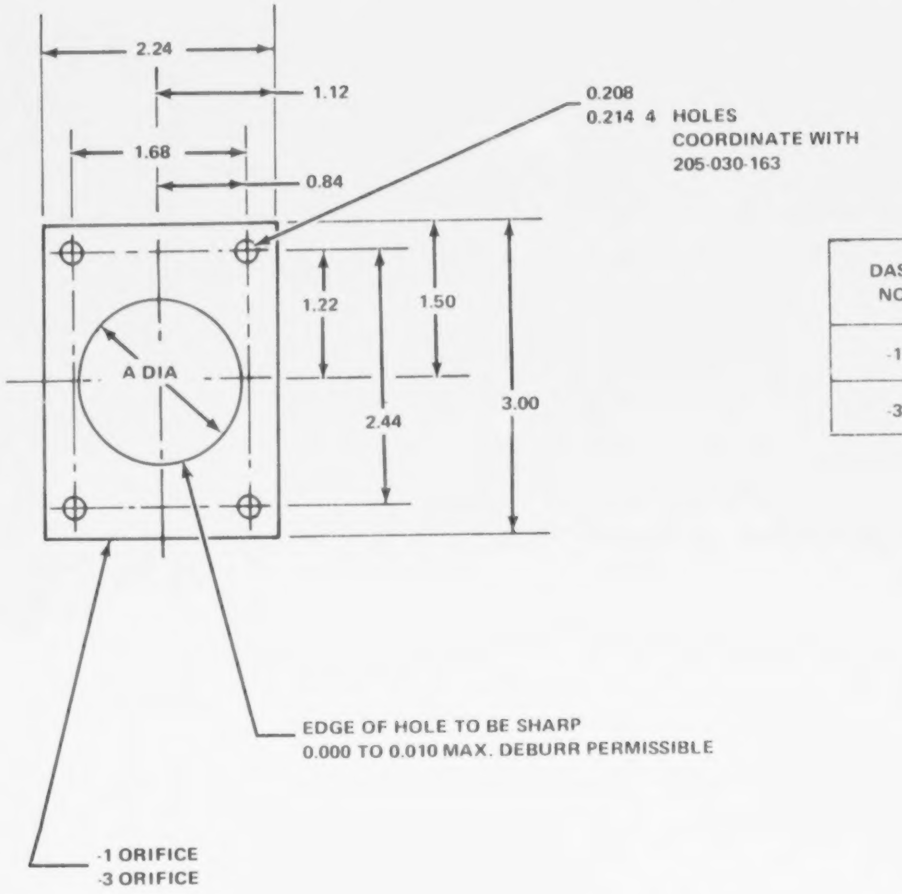

0.233
0.239
4 HOLES
6.250
3.125
7.00
3.125
6.250
-1 COVER, ASSY OF
COVER
GASKET
A-4000
ADHESIVE
0.88

Figure D-192. Part Number 205-070-483-1 COVER ASSEMBLY, Inlet

| | |
|---|---|
| Fabricate from: | NSN 9535-00-106-0609<br>NSN 9320-00-061-1975 |
| Material: | Zinc Chromate Finish |


2.24
1.12
1.68
0.84
0.208
0.214 4 HOLES
COORDINATE WITH
205-030-163
1.22
1.50
2.44
3.00
A DIA
EDGE OF HOLE TO BE SHARP
0.000 TO 0.010 MAX. DEBURR PERMISSIBLE
-1 ORIFICE
-3 ORIFICE

| DASH NO. | A DIA |
|---|---|
| -1 | 1.562 |
| -3 | 1.387 |

Figure D-193. Part Numbers: 205-070-493-1 ORIFICE, Foot Warmer
204-070-493-3

Fabricate from: NSN 9353-00-167-2279

Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.032 Inch Thick

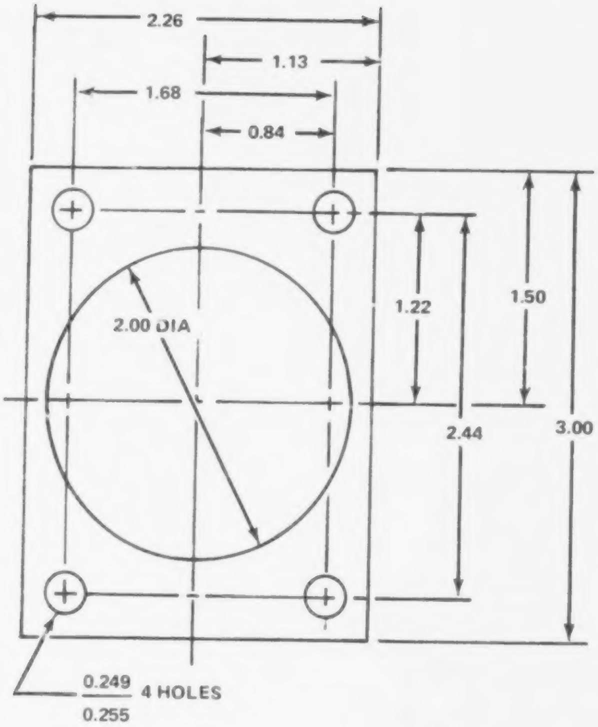

2.26
1.13
1.68
0.84
1.22
1.50
2.00 DIA
2.44
3.00
0.249
0.255
4 HOLES

**Figure D-194.** Part Number 205-070-494-1, GASKET

Fabricate from: NSN 5330-00-182-1288

Material: Cork and Rubber Sheet, Synthetic, 1/16 Inch Thick, Federal Specification MIL-G-6183

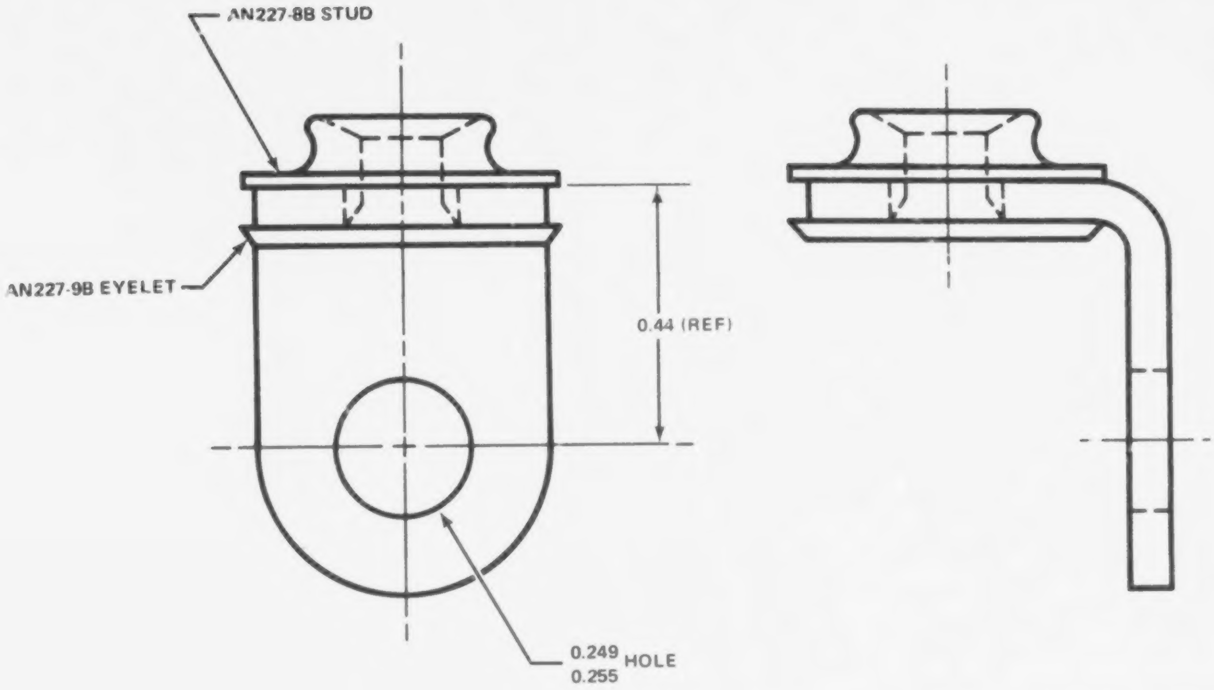
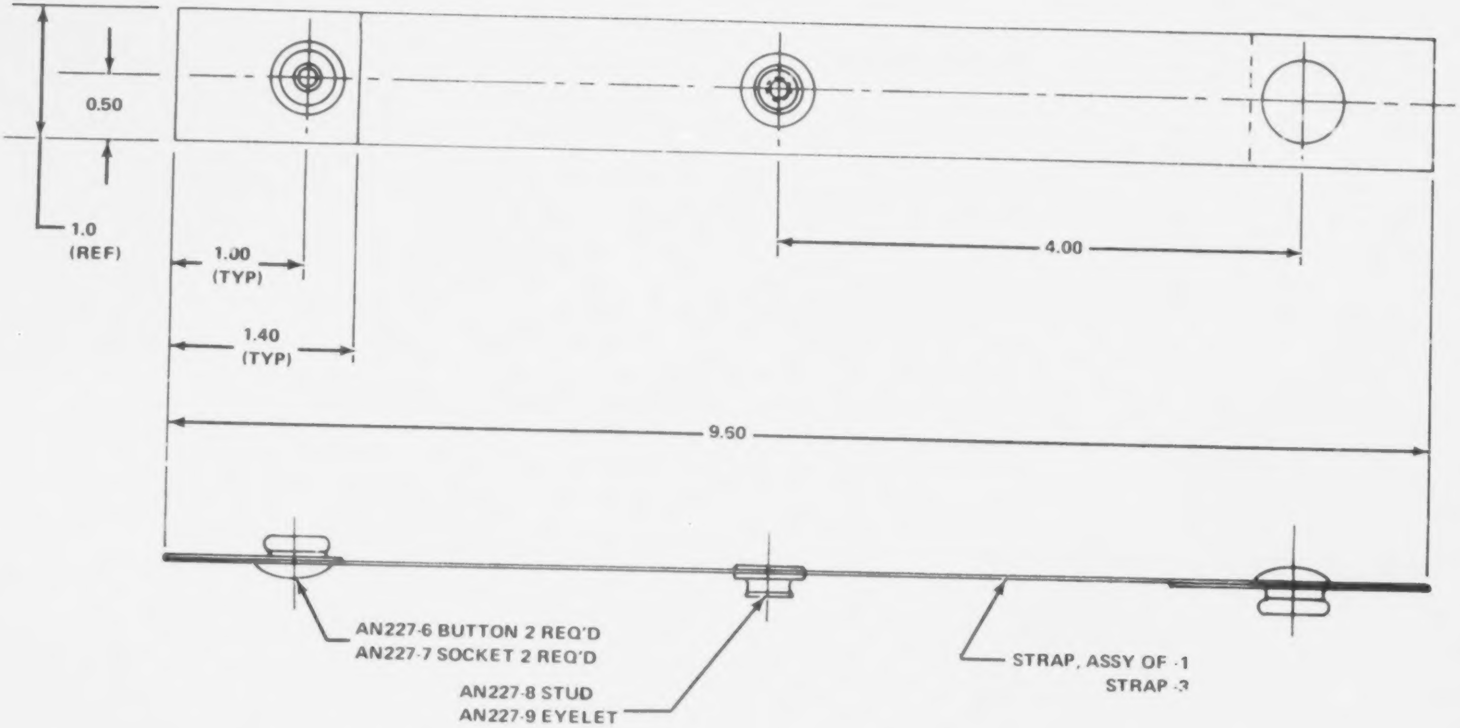

AN227-8B STUD
AN227-9B EYELET
0.44 (REF)
0.249
0.255
HOLE

**Figure D-195.** Part Number 205-070-609-1, SUPPORT ASSEMBLY, Blackout Curtain
Fabricate from: NSN 9535-00-232-0378
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.063 Inch Thick


0.50
1.0
(REF)
1.00
(TYP)
1.40
(TYP)
4.00
9.50
AN227-6 BUTTON 2 REQ'D
AN227-7 SOCKET 2 REQ'D
AN227-8 STUD
AN227-9 EYELET
STRAP, ASSY OF -1
STRAP -3

NOTES:

1. HEAT TREAT ENDS OF ALL WEBBING
2. COLOR LIGHT GULL GREY #36440 PER FED STD 595

Figure D-196. Part Number 205-070-656-1 STRAP ASSEMBLY
Fabricate from:
NSN 5325-00-276-4953
NSN 5325-00-276-4946
NSN 5325-00-174-2923
NSN 5325-00-276-4969
NSN 1680-00-225-5084
NSN 8305-00-260-6910

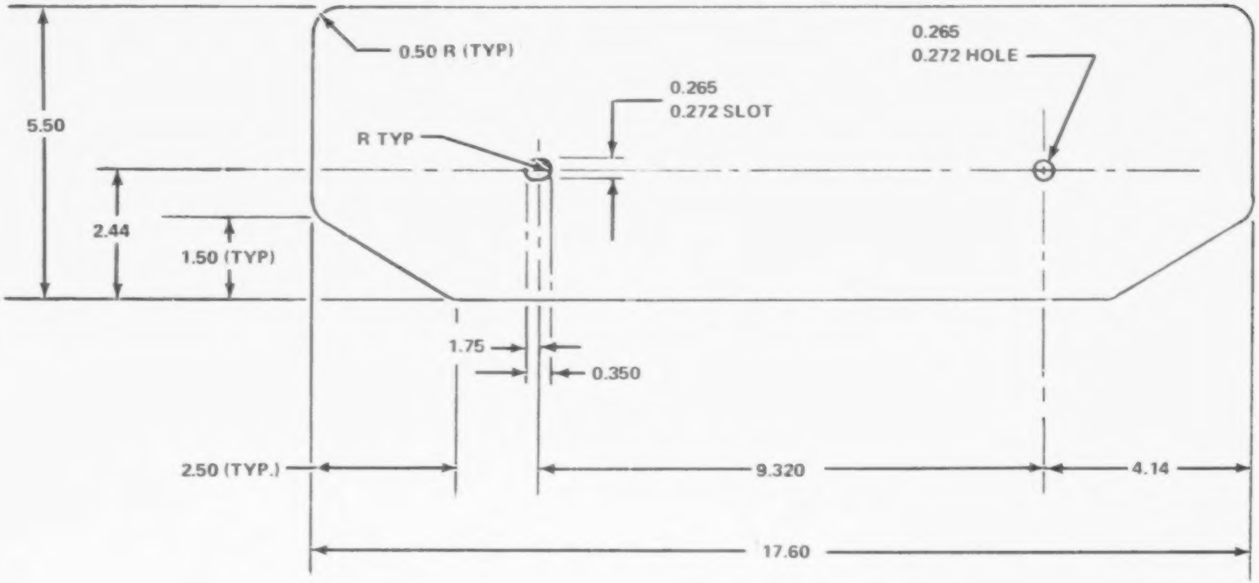
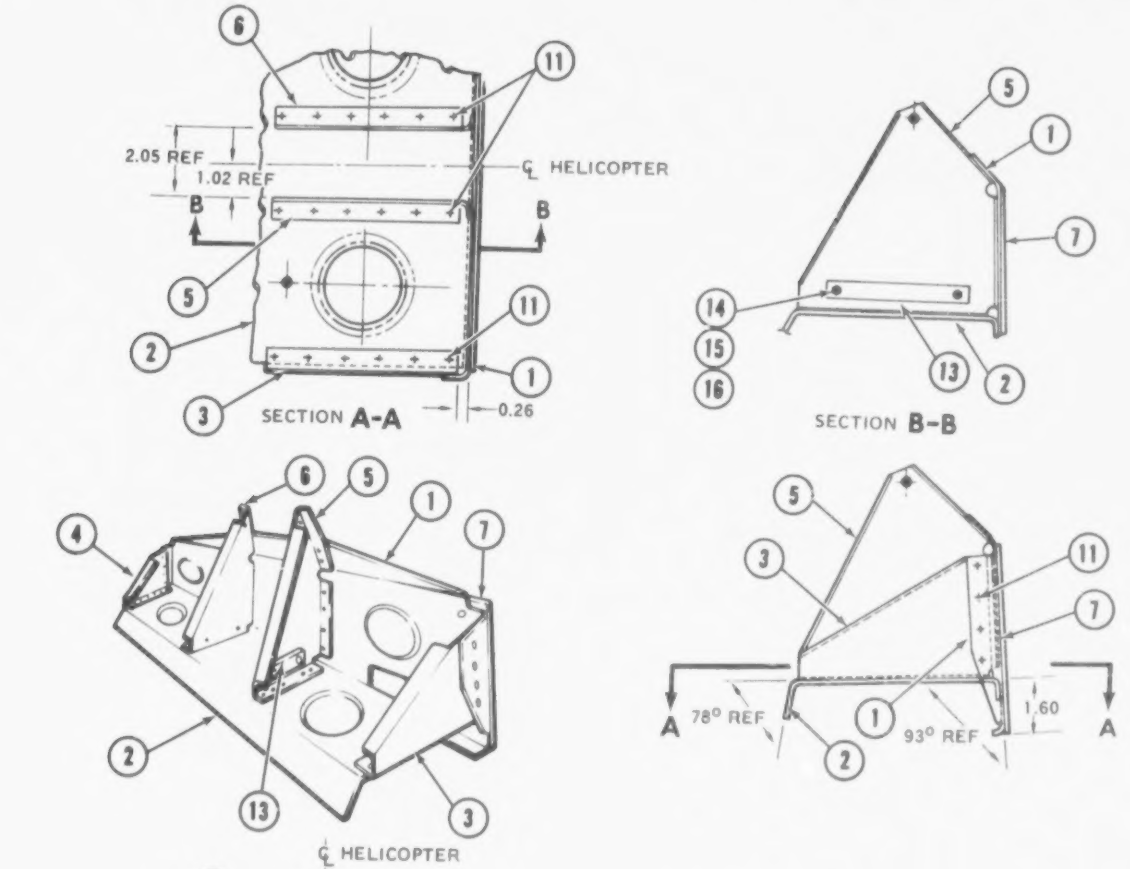
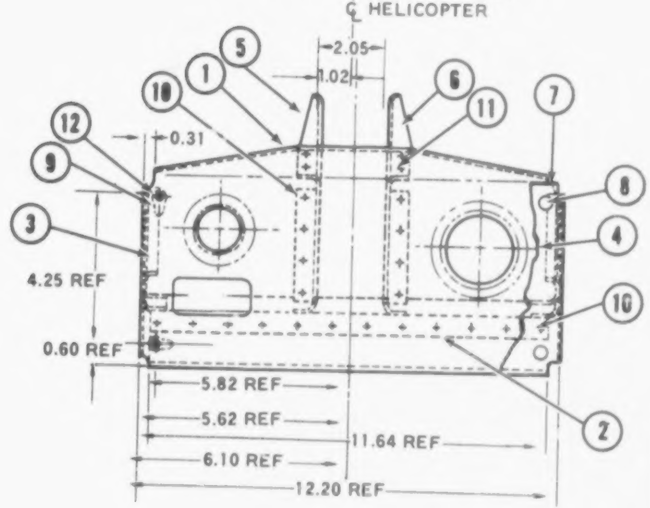

0.50 R (TYP)
0.265
0.272 HOLE
0.265
0.272 SLOT
R TYP
5.50
2.44
1.50 (TYP)
1.75
0.350
2.50 (TYP.)
9.320
4.14
17.60

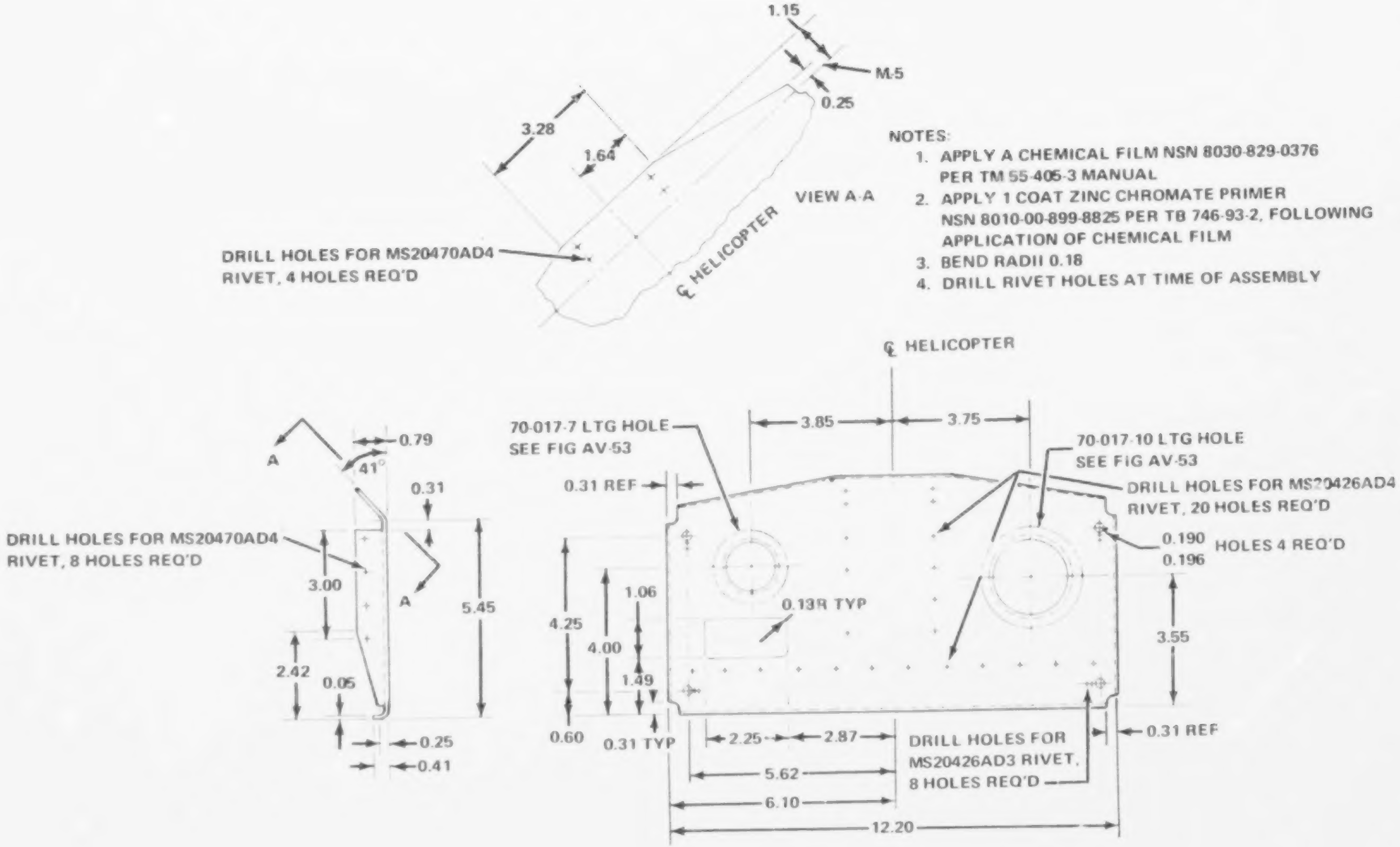
**Figure D-197.** Part Number 205-070-769-1 PLATE
Fabricate from: NSN 9535-00-167-2277
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.020 Inch Thick


6
11
2.05 REF
1.02 REF
℄ HELICOPTER
B
B
5
2
11
1
3
SECTION A-A
0.26
5
1
7
14
15
16
13
2
SECTION B-B
6
5
1
4
7
2
13
3
5
3
11
7
1
A
78° REF
93° REF
1.60
A
2


℄ HELICOPTER
5
2.05
1.02
1
10
6
11
7
12
0.31
9
8
3
4
4.25 REF
10
0.60 REF
5.82 REF
5.62 REF
11.64 REF
6.10 REF
12.20 REF
2

| ITEM NO. | PART NUMBER | NOMENCLATURE | NO. REQ'D |
|---|---|---|---|
| ⑯ | AN960PD4L | WASHER | 1 |
| ⑮ | MS35206-215 | SCREW | 2 |
| ⑭ | MS21042L04 | NUT | 2 |
| ⑬ | MS27212-1-6 | TERMINAL BOARD | 1 |
| ⑫ | NAS683A3 | NUT PLATE | 4 |
| ⑪ | MS20470AD4 | RIVET | AR |
| ⑩ | MS20426AD4 | RIVET | AR |
| ⑨ | MS20426AD3 | RIVET | AR |
| ⑧ | AN509-10F7 | SCREW | 4 |
| ⑦ | 205-031-250-13 | BASE PLATE | 1 |
| ⑥ | 205-031-260-12 | GUSSET | 1 |
| ⑤ | 205-031-260-11 | GUSSET | 1 |
| ④ | 205-031-250-10 | GUSSET | 1 |
| ③ | 205-031-250-9 | GUSSET | 1 |
| ② | 205-031-250-7 | SUPPORT | 1 |
| ① | 205-031-250-5 | SUPPORT | 1 |

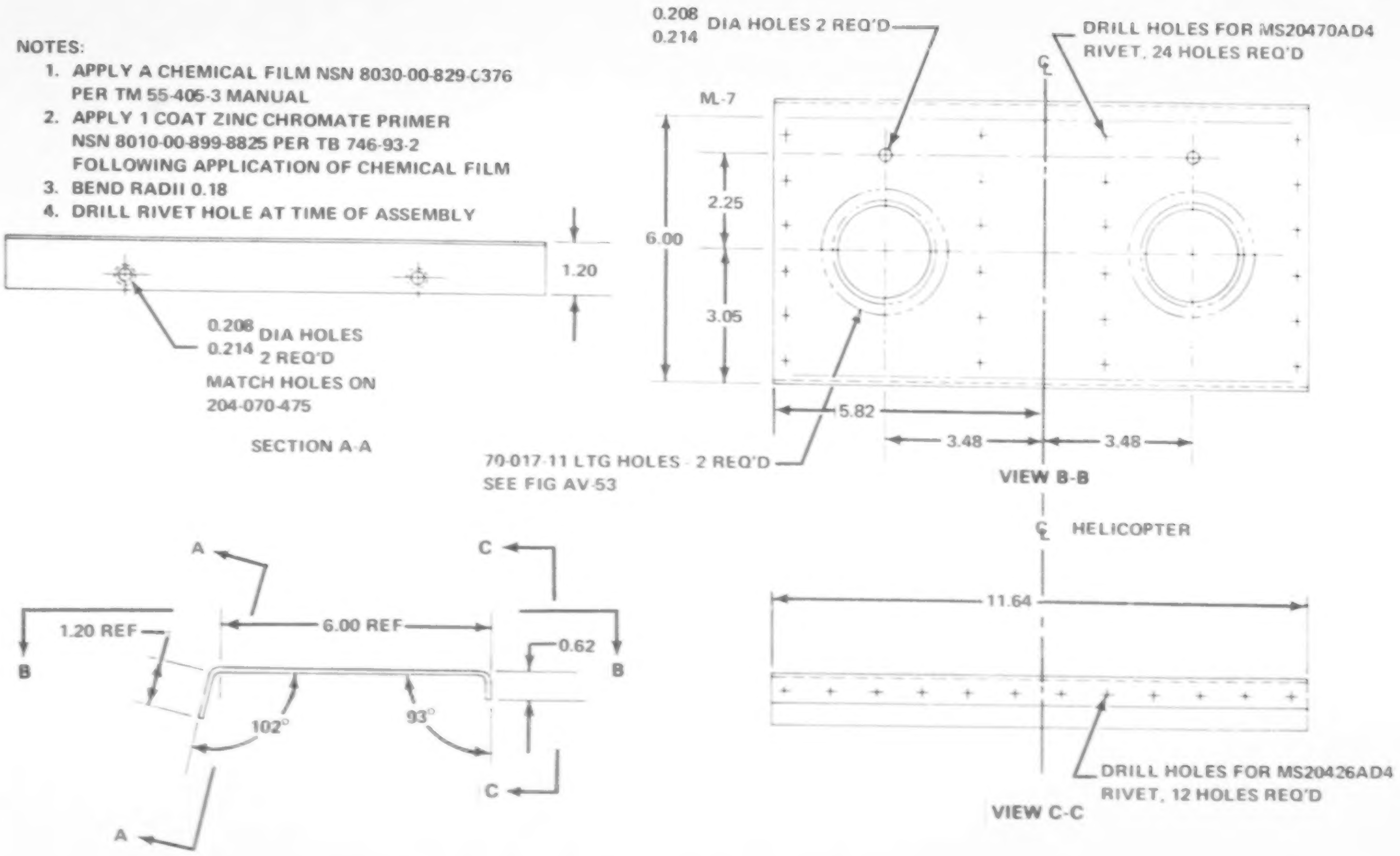
**Figure D-[illegible]** Part Number 205-031-250-3 SUPPORT BRACKET ASSEMBLY
**(Sheet 1 of 6)**


1.15
M-5
0.25
3.28
1.64
DRILL HOLES FOR MS20470AD4 RIVET, 4 HOLES REQ'D
℄ HELICOPTER
VIEW A-A
℄ HELICOPTER
3.85
3.75
70-017-7 LTG HOLE SEE FIG AV-53
70-017-10 LTG HOLE SEE FIG AV-53
DRILL HOLES FOR MS20426AD4 RIVET, 20 HOLES REQ'D
0.31 REF
0.190
0.196
HOLES 4 REQ'D
A
0.79
41°
0.31
DRILL HOLES FOR MS20470AD4 RIVET, 8 HOLES REQ'D
3.00
A
5.45
2.42
0.05
0.25
0.41
4.25
4.00
1.06
1.49
0.60
0.31 TYP
0.13R TYP
3.55
2.25
2.87
5.62
6.10
12.20
DRILL HOLES FOR MS20426AD3 RIVET, 8 HOLES REQ'D
0.31 REF

NOTES:

1. APPLY A CHEMICAL FILM NSN 8030-829-0376 PER TM 55-405-3 MANUAL
2. APPLY 1 COAT ZINC CHROMATE PRIMER NSN 8010-00-899-8825 PER TB 746-93-2, FOLLOWING APPLICATION OF CHEMICAL FILM
3. BEND RADII 0.18
4. DRILL RIVET HOLES AT TIME OF ASSEMBLY

Figure D-198. (Sheet 2 of 6)
Part Number: 205-031-260-5 SUPPORT
Fabricate from: NSN 9535-00-640-2311
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, TEMP T3, 0.050 Inch Thick



NOTES:

1. APPLY A CHEMICAL FILM NSN 8030-00-829-0376 PER TM 55-405-3 MANUAL
2. APPLY 1 COAT ZINC CHROMATE PRIMER NSN 8010-00-899-8825 PER TB 746-93-2 FOLLOWING APPLICATION OF CHEMICAL FILM
3. BEND RADII 0.18
4. DRILL RIVET HOLE AT TIME OF ASSEMBLY

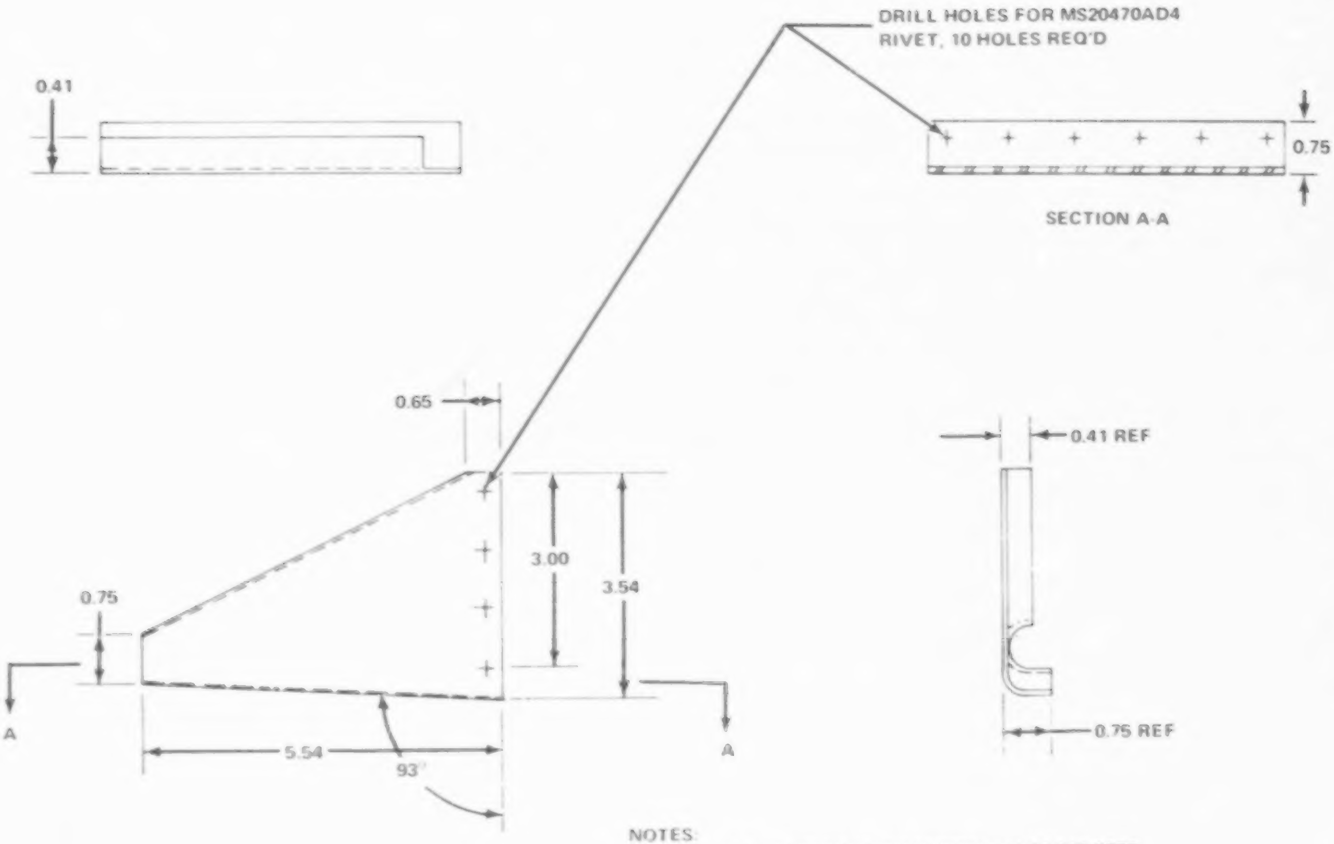
1.20
0.208 0.214 DIA HOLES 2 REQ'D
MATCH HOLES ON 204-070-475
SECTION A-A
0.208 0.214 DIA HOLES 2 REQ'D
DRILL HOLES FOR MS20470AD4 RIVET, 24 HOLES REQ'D
M-7
6.00
2.25
3.05
5.82
3.48
3.48
70-017-11 LTG HOLES - 2 REQ'D SEE FIG AV-53
VIEW B-B
℄ HELICOPTER
11.64
DRILL HOLES FOR MS20426AD4 RIVET, 12 HOLES REQ'D
VIEW C-C
A
C
B
1.20 REF
6.00 REF
0.62
B
102°
93°
C
A

Figure D-198. (Sheet 3 of 6)

Part Number: 205-031-250-7 SUPPORT

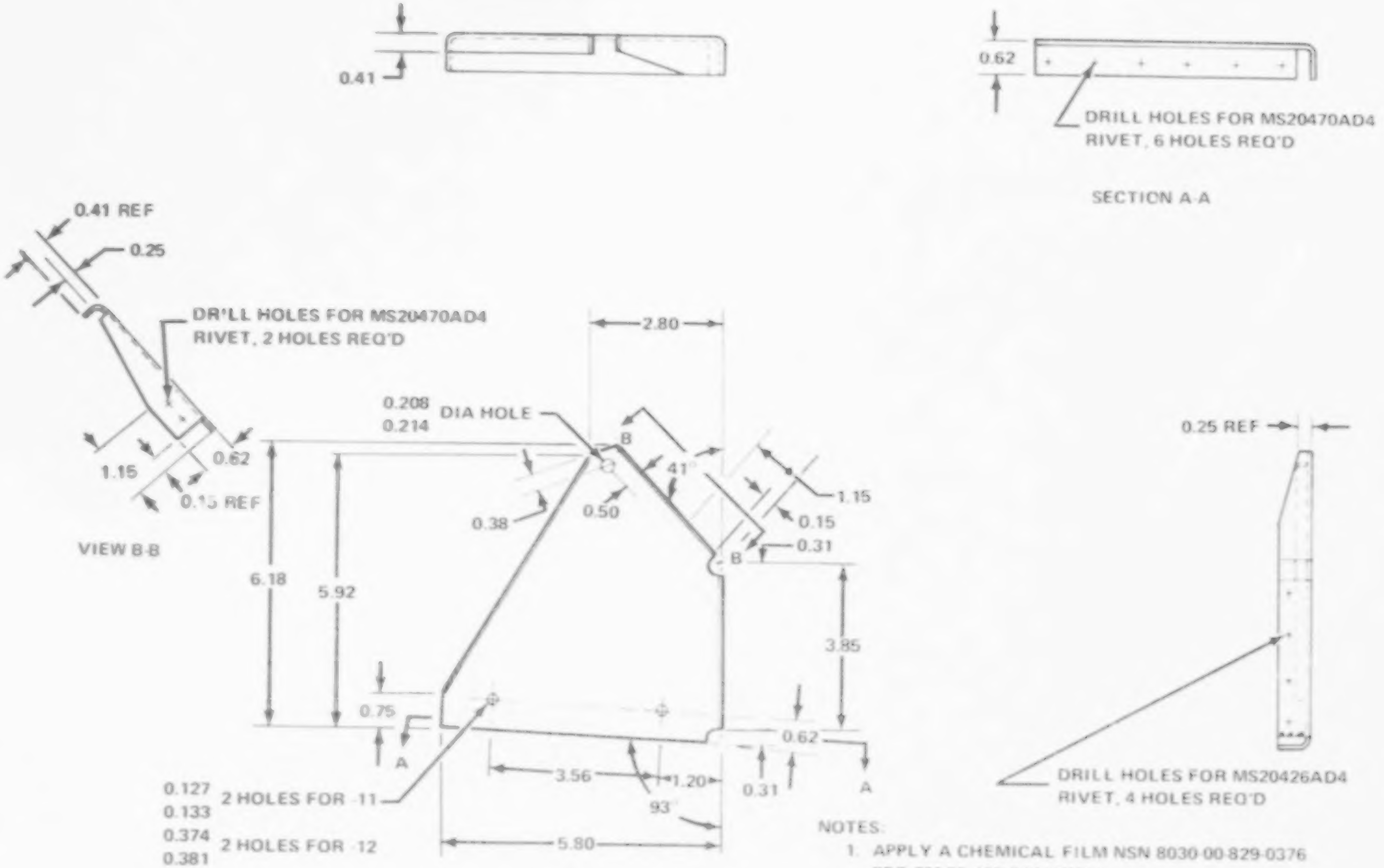
Fabricate from: NSN 9535-00-640-2311

Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, TEMP T3, 0.050 Inch Thick


DRILL HOLES FOR MS20470AD4
RIVET, 10 HOLES REQ'D
0.41
0.75
SECTION A-A
0.65
3.00
3.54
0.75
A
A
5.54
93°
0.41 REF
0.75 REF

NOTES:
1. APPLY A CHEMICAL FILM NSN 8030-00-829-0376 PER TM 55-405-3 MANUAL
2. APPLY 1 COAT ZINC CHROMATE PRIMER NSN 8010-00-899-8825 PER TB 746-93-2, FOLLOWING APPLICATION OF CHEMICAL FILM
3. BEND RADII 0.18
4. DRILL RIVET HOLES AT TIME OF ASSEMBLY

Figure D-198. Part Number **205-031-250-9 SHOWN-GUSSET**
**205-031-250-10 OPPOSITE-GUSSET**
(Sheet 4 of 6) Fabricate from: **NSN 9535-00-640-2311**
Material: **2024 AL ALY Sheet, Federal Specification QQ-A-250/5, Temp T3, 0.050 Inch Thick**


0.41
0.62
DRILL HOLES FOR MS20470AD4
RIVET, 6 HOLES REQ'D
SECTION A-A
0.41 REF
0.25
DRILL HOLES FOR MS20470AD4
RIVET, 2 HOLES REQ'D
1.15
0.62
0.15 REF
VIEW B-B
2.80
0.208
0.214
DIA HOLE
B
41°
1.15
0.15
0.31
B
0.38
0.50
6.18
5.92
3.85
0.75
A
0.62
0.31
A
3.56
1.20
93°
5.80
0.127
0.133
2 HOLES FOR -11
0.374
0.381
2 HOLES FOR -12
0.25 REF
DRILL HOLES FOR MS20426AD4
RIVET, 4 HOLES REQ'D

NOTES:

1. APPLY A CHEMICAL FILM NSN 8030-00-829-0376 PER TM 55-405-3 MANUAL
2. APPLY 1 COAT ZINC CHROMATE PRIMER NSN 8010-00-899-8825 PER TB 746-93-2, FOLLOWING APPLICATION OF CHEMICAL FILM
3. BEND RADII 0.18
4. DRILL RIVET HOLES AT TIME OF ASSEMBLY

Figure D-198. **Part Number** **205-031-250-11 SHOWN-GUSSET**
**205-031-250-12 OPPOSITE-GUSSET**

(Sheet 5 of 6) **Fabricate from:** **NSN 9535-00-640-2311**
**Material:** **2024 AL ALY Sheet, Federal Specification QQ-A-250/5, TEMP T3, 0.050 Inch Thick**

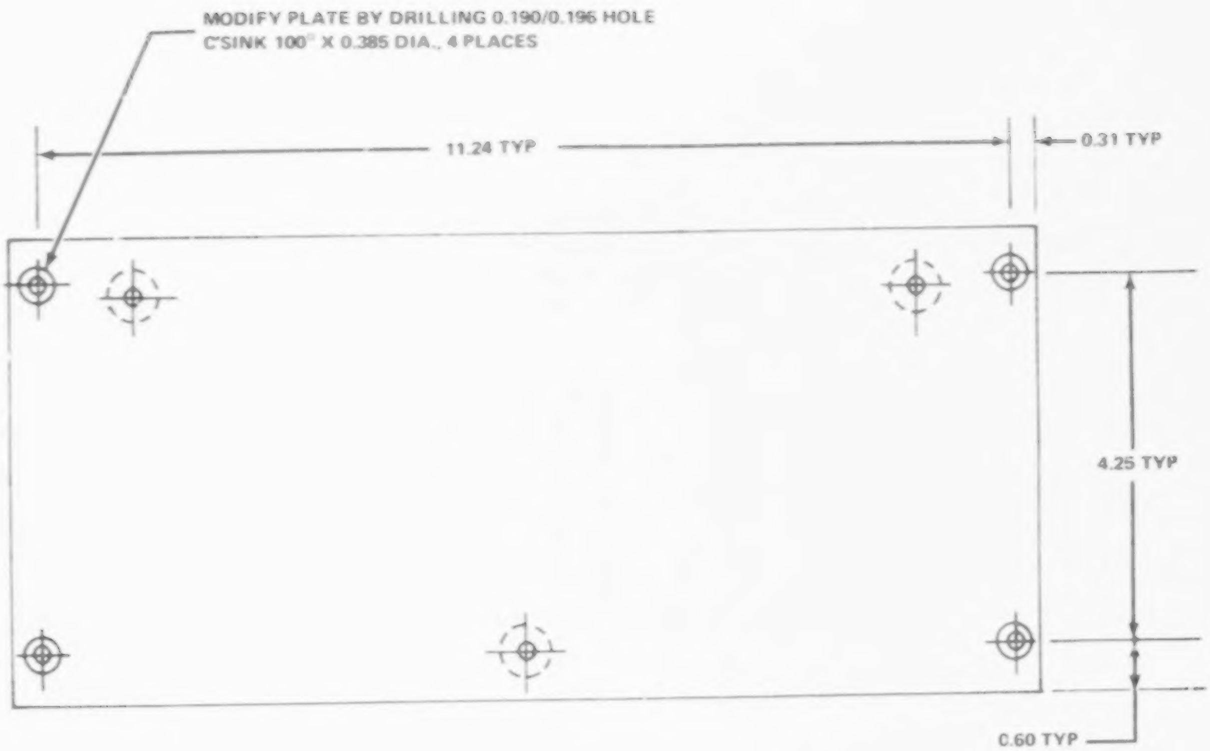

MODIFY PLATE BY DRILLING 0.190/0.196 HOLE
C'SINK 100° X 0.385 DIA., 4 PLACES
11.24 TYP
0.31 TYP
4.25 TYP
0.60 TYP

**Figure D-198.**
**(Sheet 6 of 6)**

| | |
|---|---|
| Part Number | 205-031-250-13 BASE PLATE |
| Fabricate from: | NSN 1560-00-903-0798 |
| Material: | |

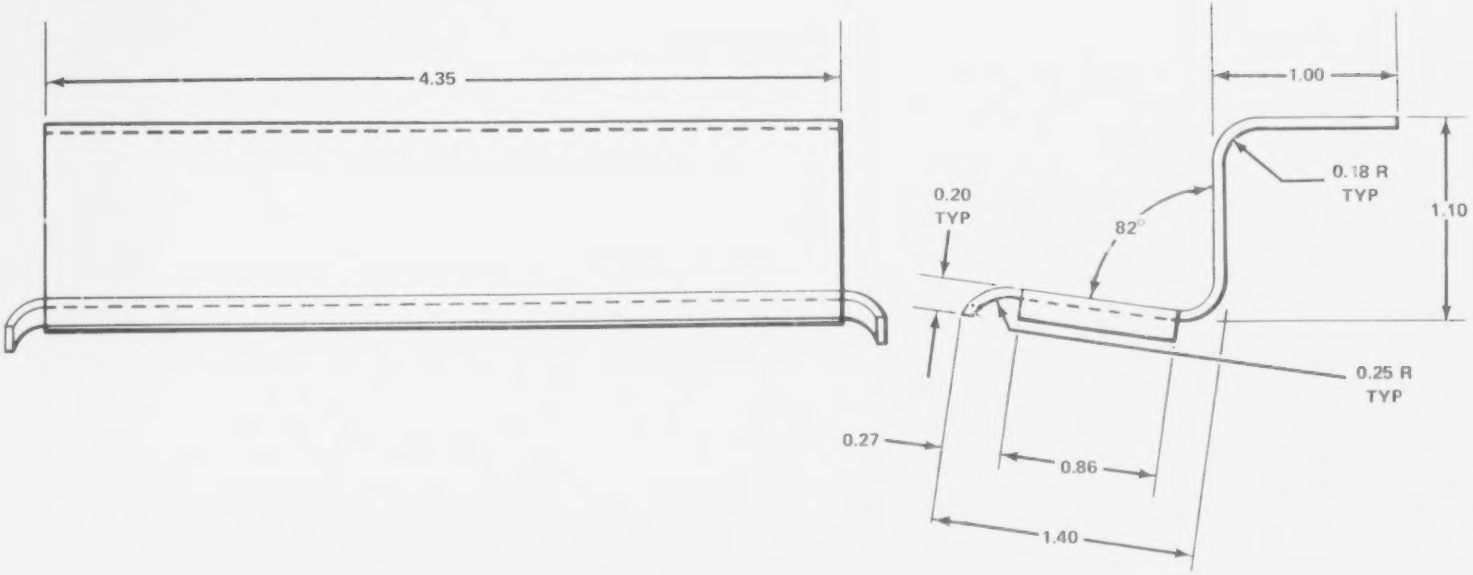

4.35
1.00
0.18 R
TYP
1.10
82°
0.20
TYP
0.25 R
TYP
0.27
0.86
1.40

Figure D-199. Part Number 205-070-942-1 BRACKET
Fabricate from: NSN 9535-00-640-2311
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-362, Temp T3, 0.050 In. Thick

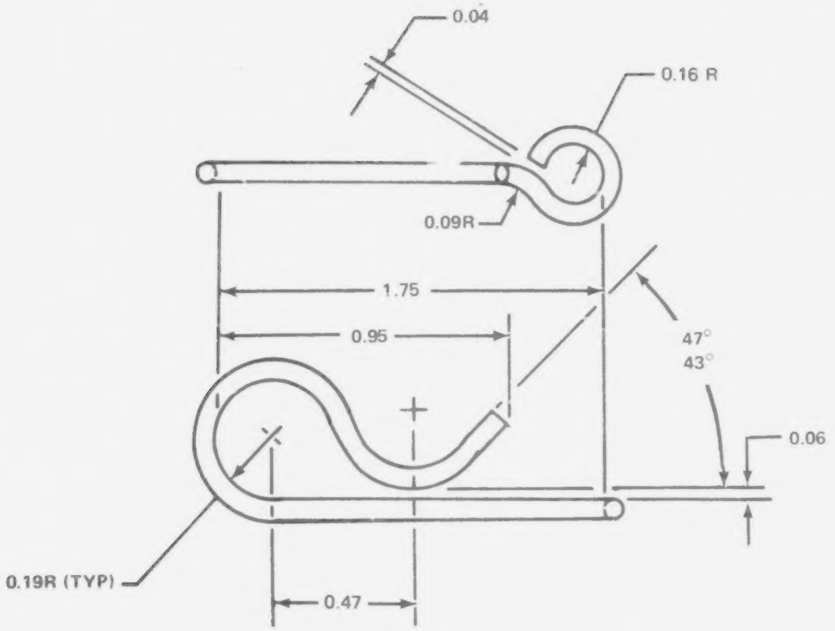

0.04
0.16 R
0.09R
1.75
0.95
47°
43°
0.06
0.19R (TYP)
0.47

Figure D-200. Part Number 205-072-269-3 CLIP, Spring Tension
Fabricate from: NSN 9505-00-221-2682
Material: Wire, Steel Carbon, Spring, Federal Specification MIL-W-6101-2, 0.67 Inch Dia

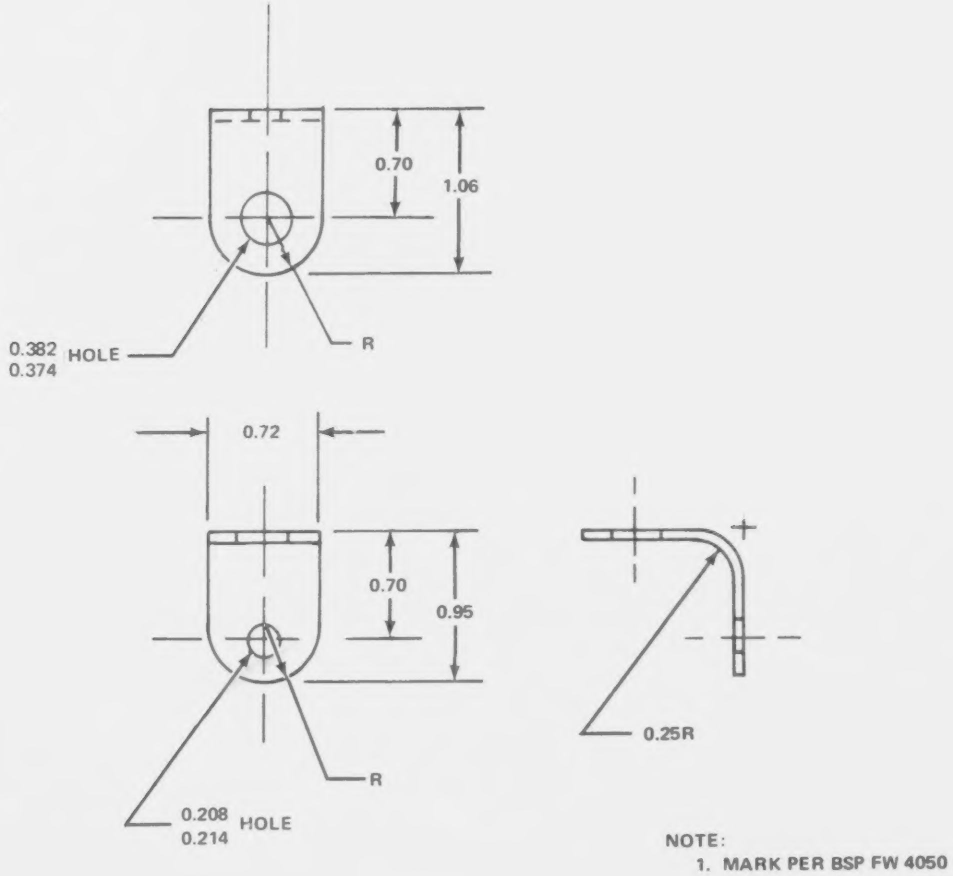

0.70
1.06
0.382
0.374
HOLE
R
0.72
0.70
0.95
0.25R
R
0.208
0.214
HOLE
NOTE:
1. MARK PER BSP FW 4050

Figure D-201. **Part Number** **205-072-274-3 BRACKET, ANGLE**
**Fabricate from:** **NSN 9535-00-232-0378**
**Material:** **2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.063 Inch Thick**

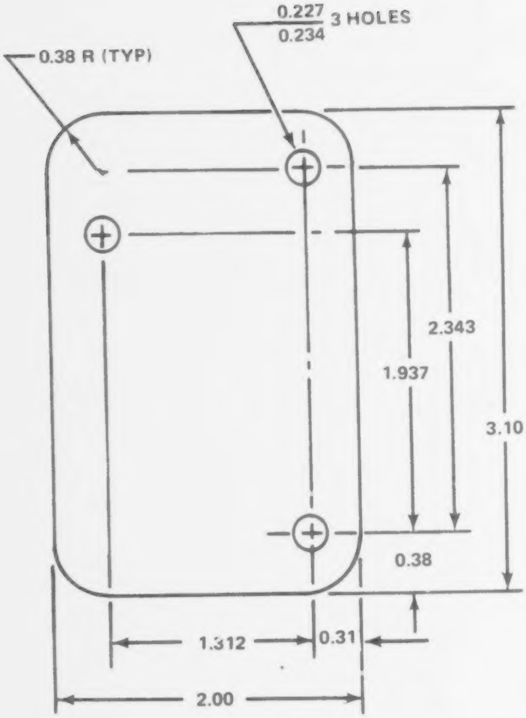

0.227
0.234
3 HOLES
0.38 R (TYP)
2.343
1.937
3.10
0.38
1.312
0.31
2.00

Figure D-202. Part Number 205-072-403-1 PLATE, Cover, Heating Valve
Fabricate from: NSN 9535-00-086-9729
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.032 Inch Thick

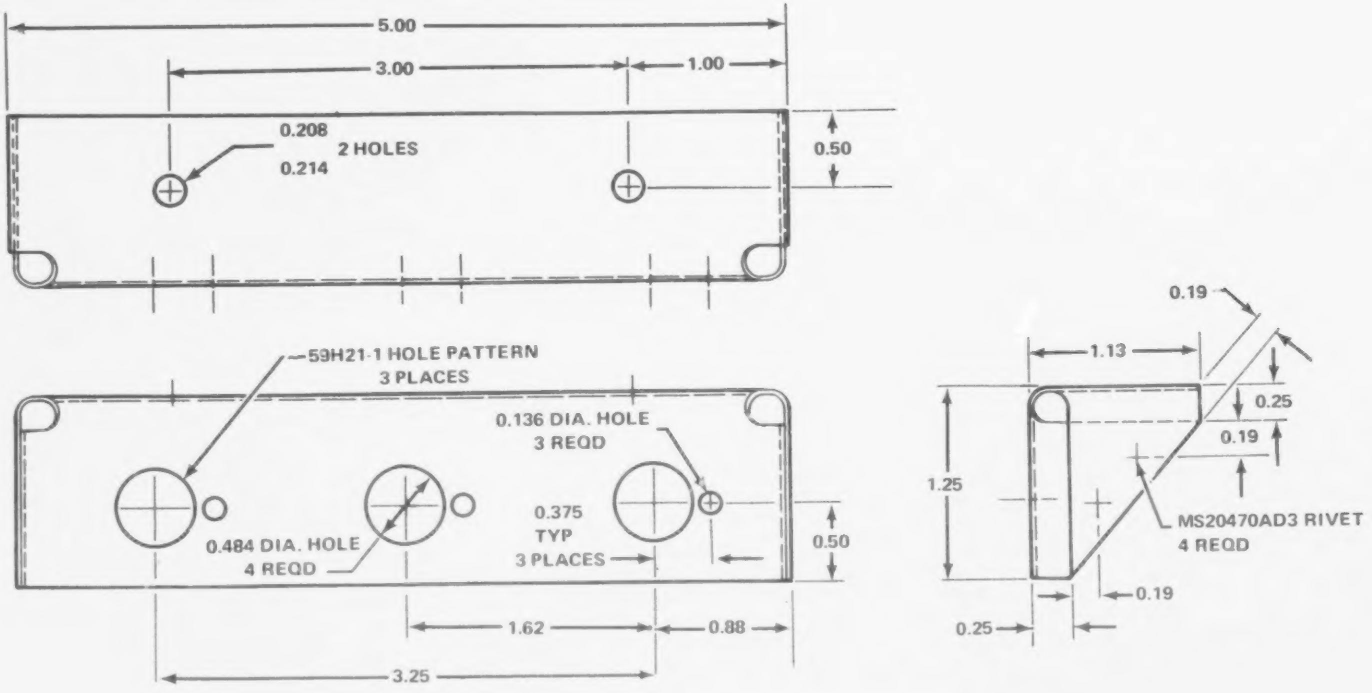

5.00
3.00
1.00
0.208
0.214
2 HOLES
0.50
59H21-1 HOLE PATTERN
3 PLACES
0.136 DIA. HOLE
3 REQD
0.375
TYP
3 PLACES
0.484 DIA. HOLE
4 REQD
0.50
1.62
0.88
3.25
0.19
1.13
0.25
0.19
1.25
MS20470AD3 RIVET
4 REQD
0.19
0.25

Figure D-203. Part Number 205-075-126-1, SUPPORT ASSEMBLY, Circuit Breaker
Fabricate from: NSN 9535-00-167-2279
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.032 Inch Thick

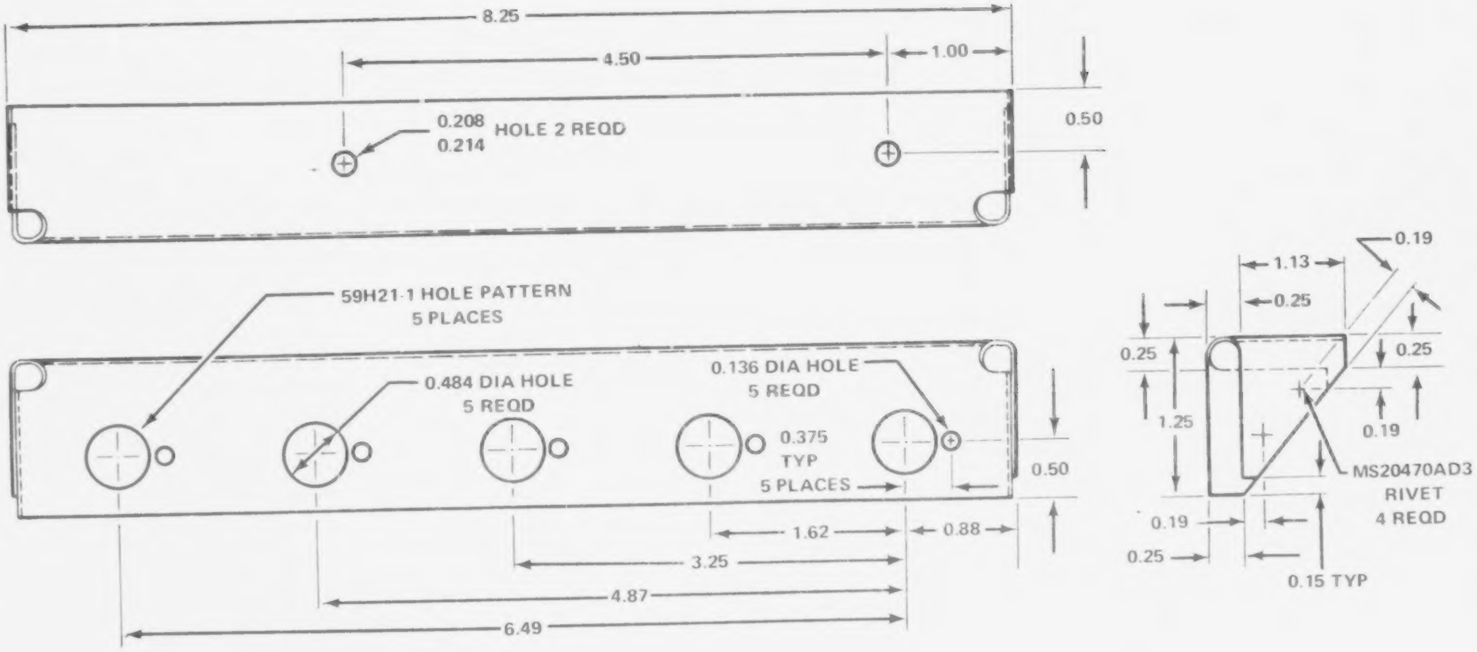
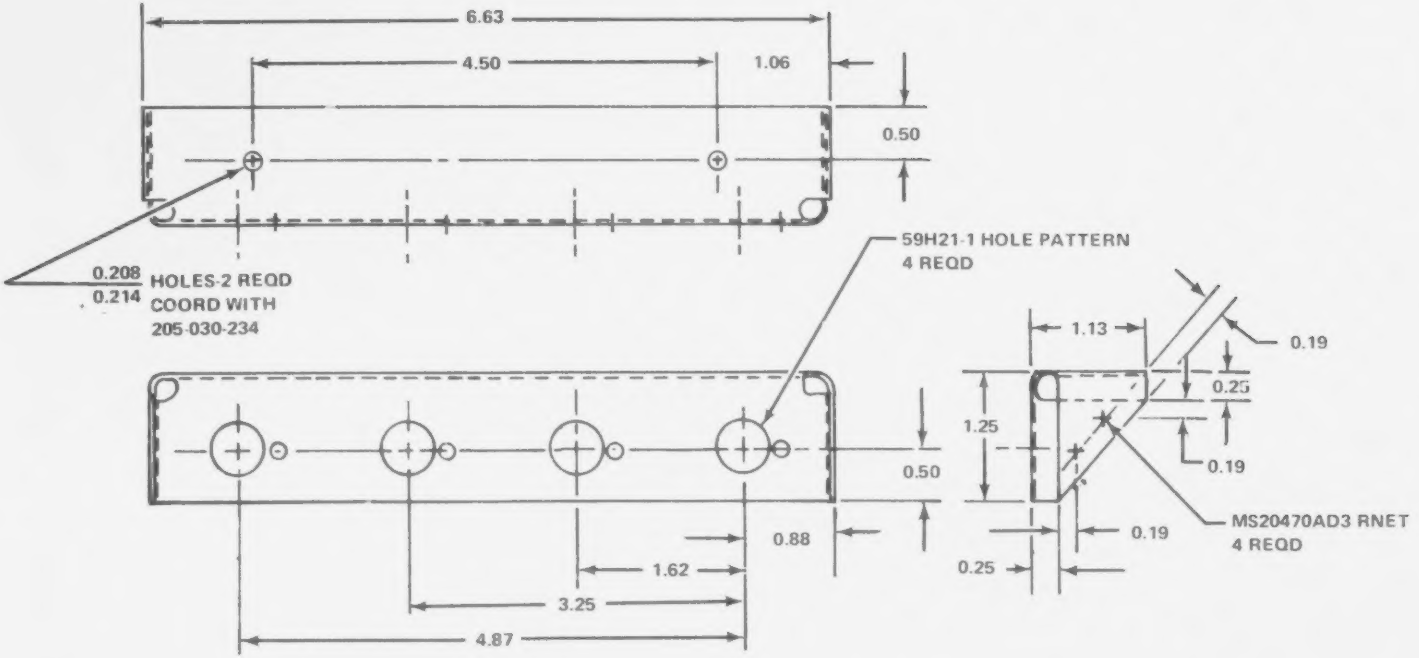

8.25
4.50
1.00
0.50
0.208
0.214
HOLE 2 REQD
59H21-1 HOLE PATTERN
5 PLACES
0.484 DIA HOLE
5 REQD
0.136 DIA HOLE
5 REQD
0.375
TYP
5 PLACES
0.50
1.62
0.88
3.25
4.87
6.49
1.13
0.19
0.25
0.25
0.25
1.25
0.19
MS20470AD3
RIVET
4 REQD
0.19
0.25
0.15 TYP

**Figure D-204.** Part Number 205-075-126-9, SUPPORT ASSEMBLY, Circuit Breaker
Fabricate from: NSN 9535-00-167-2279
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.032 Inch Thick


6.63
4.50
1.06
0.50
0.208
0.214
HOLES-2 REQD
COORD WITH
205-030-234
59H21-1 HOLE PATTERN
4 REQD
1.13
0.19
0.25
1.25
0.19
0.50
0.88
1.62
3.25
4.87
0.19
0.25
MS20470AD3 RNET
4 REQD

NOTES:

1. ALL BEND RADII TO BE 0.12 UNLESS OTHERWISE NOTED
2. BEND RELIEF RADII 0.16

**Figure D-205.**

| | |
|---|---|
| Part Number | 205-075-126-13, SUPPORT ASSEMBLY |
| Fabricate from: | NSN 9535-00-167-2279 |
| Material: | 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.032 Inch Thick |

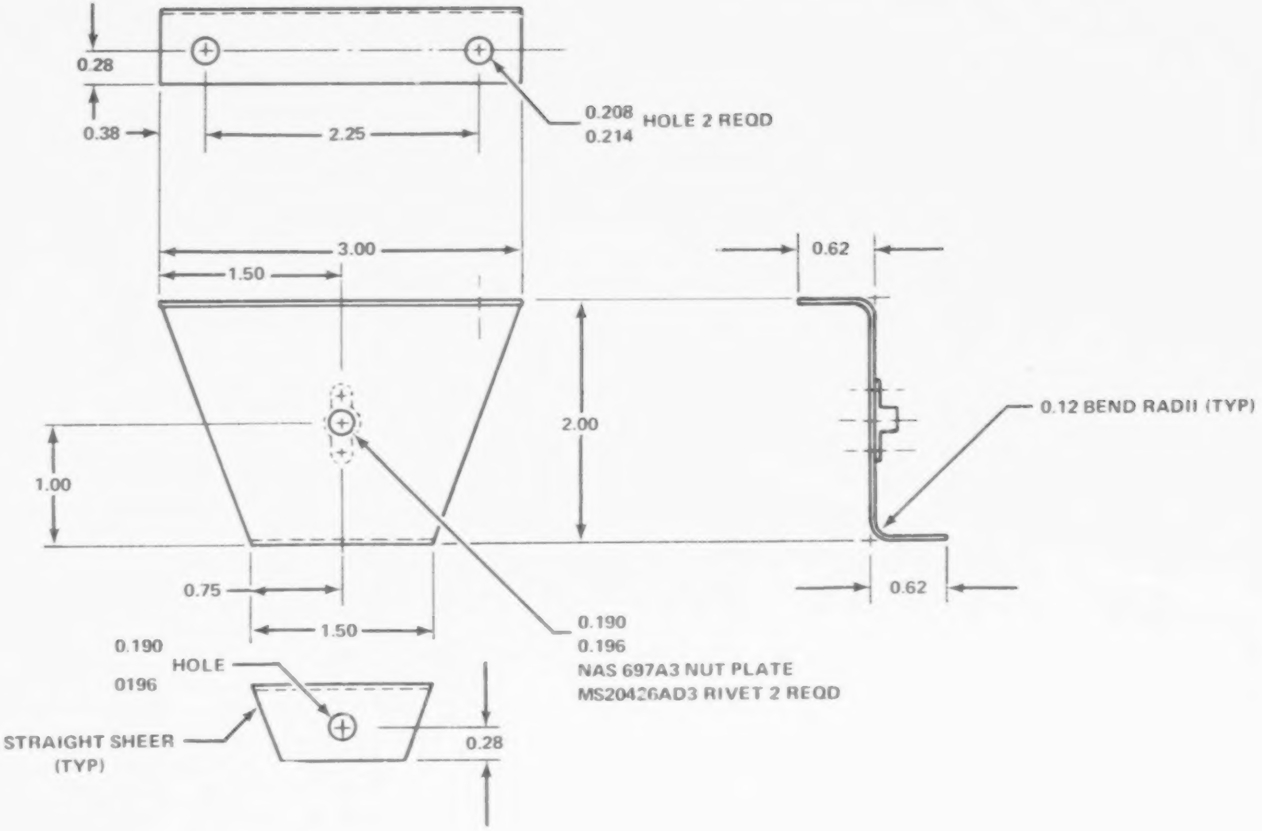

0.28
0.38
2.25
0.208
0.214
HOLE 2 REQD
3.00
1.50
0.62
2.00
0.12 BEND RADII (TYP)
1.00
0.75
1.50
0.62
0.190
0.196
NAS 697A3 NUT PLATE
MS20426AD3 RIVET 2 REQD
0.190
0196
HOLE
STRAIGHT SHEER
(TYP)
0.28

**Figure D-206.** Part Number 205-075-133-1, BRACKET ASSEMBLY, Cable Support
Fabricate from: NSN 9535-00-167-2279
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.032 Inch Thick

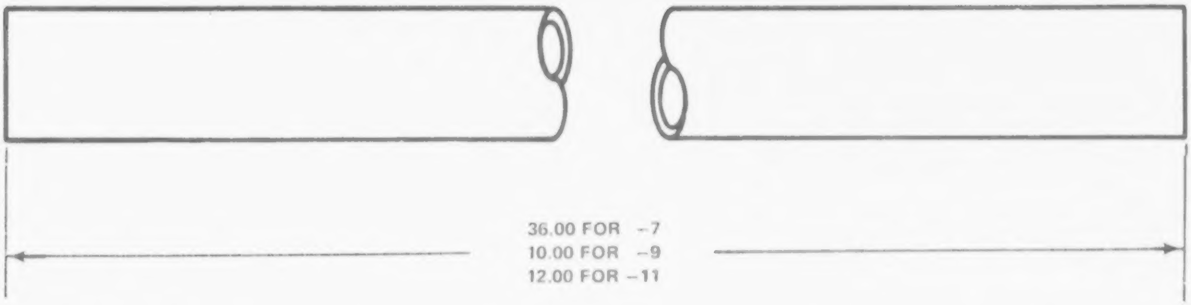
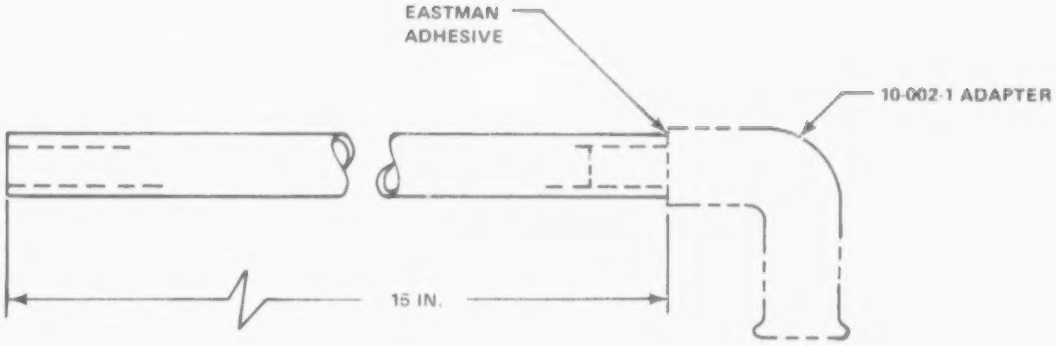

36.00 FOR -7
10.00 FOR -9
12.00 FOR -11

Figure D-207. **Part Number** 205-075-134-1 TUBE, Battery Vent
**Fabricate from:** NSN 4710-00-278-8726
**Material:** 5052 AL ALY Tube, Federal Specification WW-T-700/4 Type 1, 3/8 Inch Dia, 0.049 Inch Wall Thickness


EASTMAN ADHESIVE
10-002-1 ADAPTER
15 IN.

NOTES:

1. PRIOR TO BOND CLEAN SURFACES WITH ACETONE CHEM PURE OR METHYL ETHYL KETONE CHEM PURE
2. ALTERNATE MAT'L: RUBBER - BLACK, MIL-R-6855, CLASS II - GRADE 60

Figure D-208. **Part Number** 205-075-135-15 TUBE
**Fabricate from:** NSN 4720-00-540-3644
**Material:** Tubing, Black Synthetic, Federal Specification MIL-R-6855 Class II, Grade 40, 3/8 Inch ID, 1/8 Inch Wall Thickness

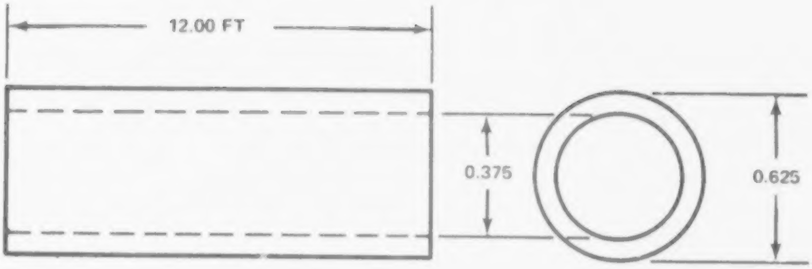


**Figure D-209.** Part Number 205-075-142-3 TUBE
Fabricate from: NSN 4720-00-231-2483
Material: Tubing, Rubber, Natural, Federal Specification ZZ-T-831, Grade A, 3/8 Inch ID, 1/8 Inch Wall Thickness

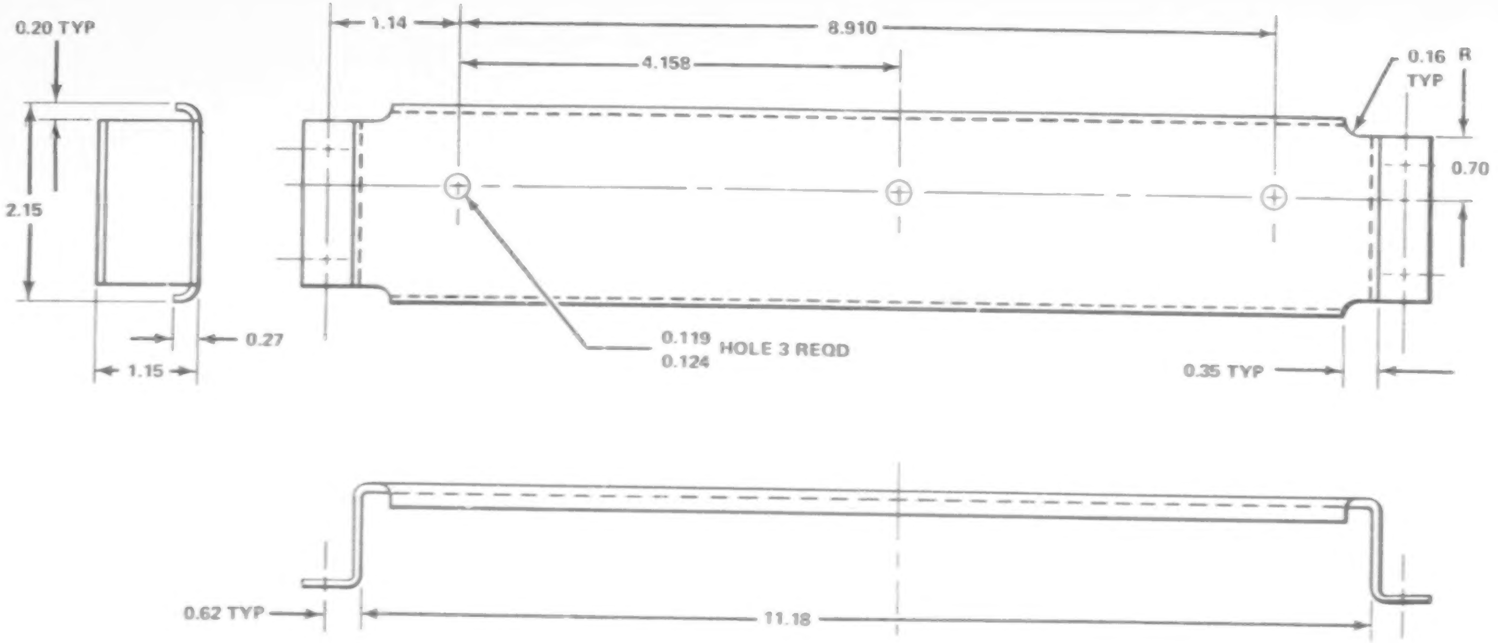

0.20 TYP
2.15
0.27
1.15
1.14
8.910
4.158
0.16 R
TYP
0.70
0.119
0.124
HOLE 3 REQD
0.35 TYP
0.62 TYP
11.18

**Figure D-210.**

| | |
|---|---|
| Part Number | 205-075-144-3, BRACKET |
| Fabricate from: | NSN 9535-00-167-2279 |
| Material | 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.032 Inch Thick |

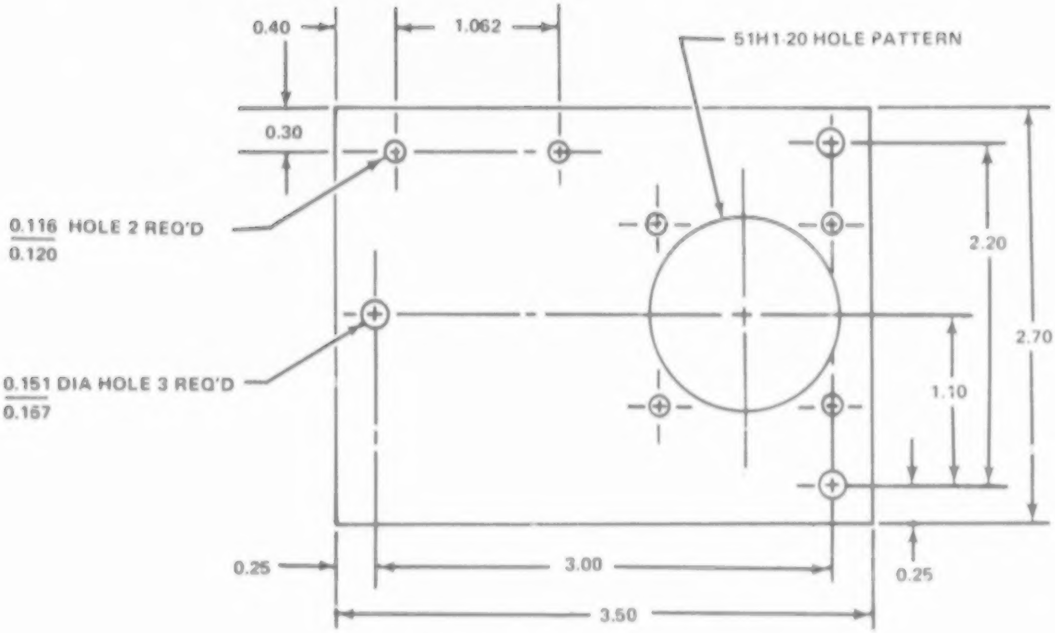

0.40
1.062
51H1-20 HOLE PATTERN
0.30
0.116 HOLE 2 REQ'D
0.120
2.20
2.70
0.151 DIA HOLE 3 REQ'D
0.157
1.10
0.25
3.00
0.25
3.50

**Figure D-211.** Part Number 205-075-229-1, MOUNTING PLATE
Fabricate from: NSN 9535-00-554-1412
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-362, 0.050 Inch Thick

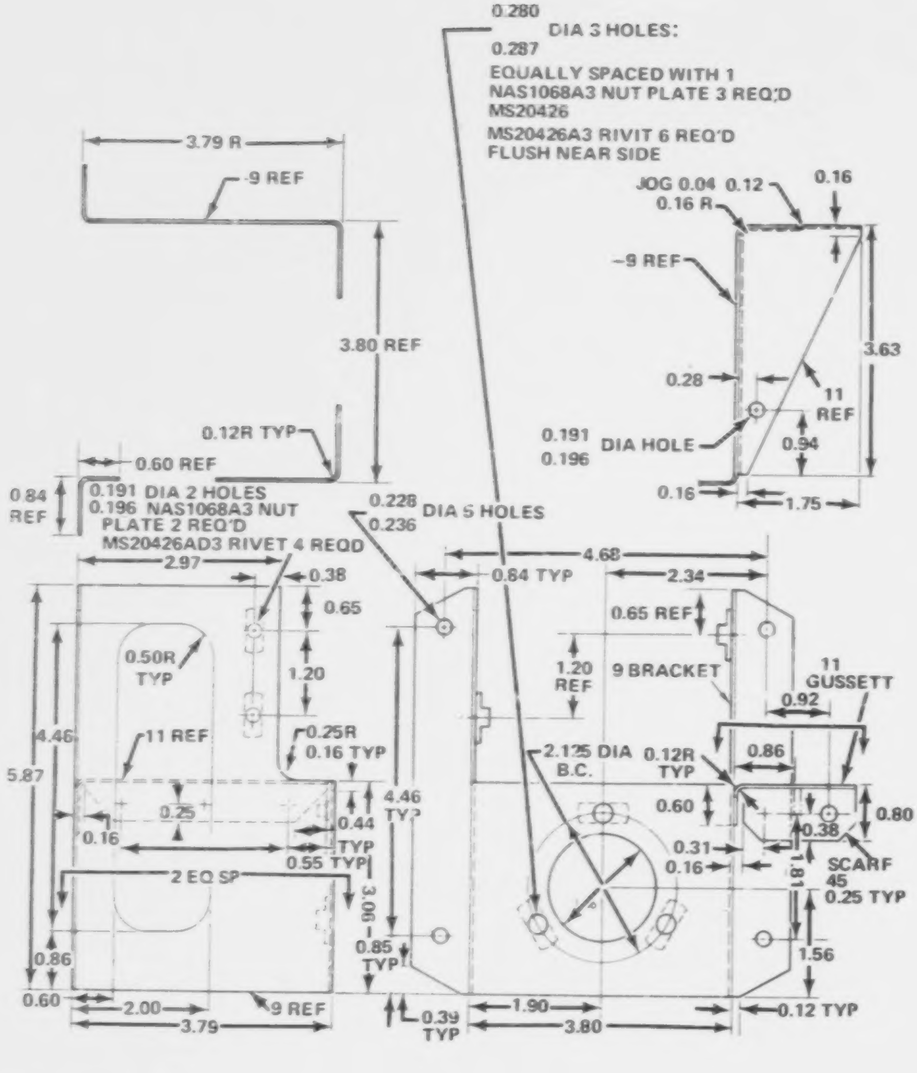

0.280
DIA 3 HOLES:
0.287
EQUALLY SPACED WITH 1
NAS1068A3 NUT PLATE 3 REQ'D
MS20426
MS20426A3 RIVIT 6 REQ'D
FLUSH NEAR SIDE
3.79 R
-9 REF
JOG 0.04 0.12
0.16 R
0.16
-9 REF
3.80 REF
3.63
0.28
11
REF
0.191
0.196
DIA HOLE
0.94
0.12R TYP
0.60 REF
0.16
1.75
0.84
REF
0.191 DIA 2 HOLES
0.196 NAS1068A3 NUT
PLATE 2 REQ'D
MS20426AD3 RIVET 4 REQD
0.228
0.236
DIA 5 HOLES
4.68
2.97
0.38
0.64 TYP
2.34
0.65
0.65 REF
0.50R
TYP
1.20
1.20
REF
9 BRACKET
11
GUSSETT
0.92
4.46
11 REF
0.25R
0.16 TYP
2.125 DIA
B.C.
0.12R
TYP
0.86
5.87
0.25
4.46
TYP
0.60
0.80
0.44
0.16
TYP
0.55 TYP
0.31
0.38
0.16
1.81
SCARF
45
0.25 TYP
2 EQ SP
3.06
0.85
TYP
0.86
1.56
0.60
2.00
9 REF
3.79
0.39
TYP
1.90
3.80
0.12 TYP

Figure D-212. Part Numbers 205-076-101-1 BRACKET ASSEMBLY
205-076-101-3
Fabricate from: NSN 9535-00-167-2280
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.040 Inch Thick

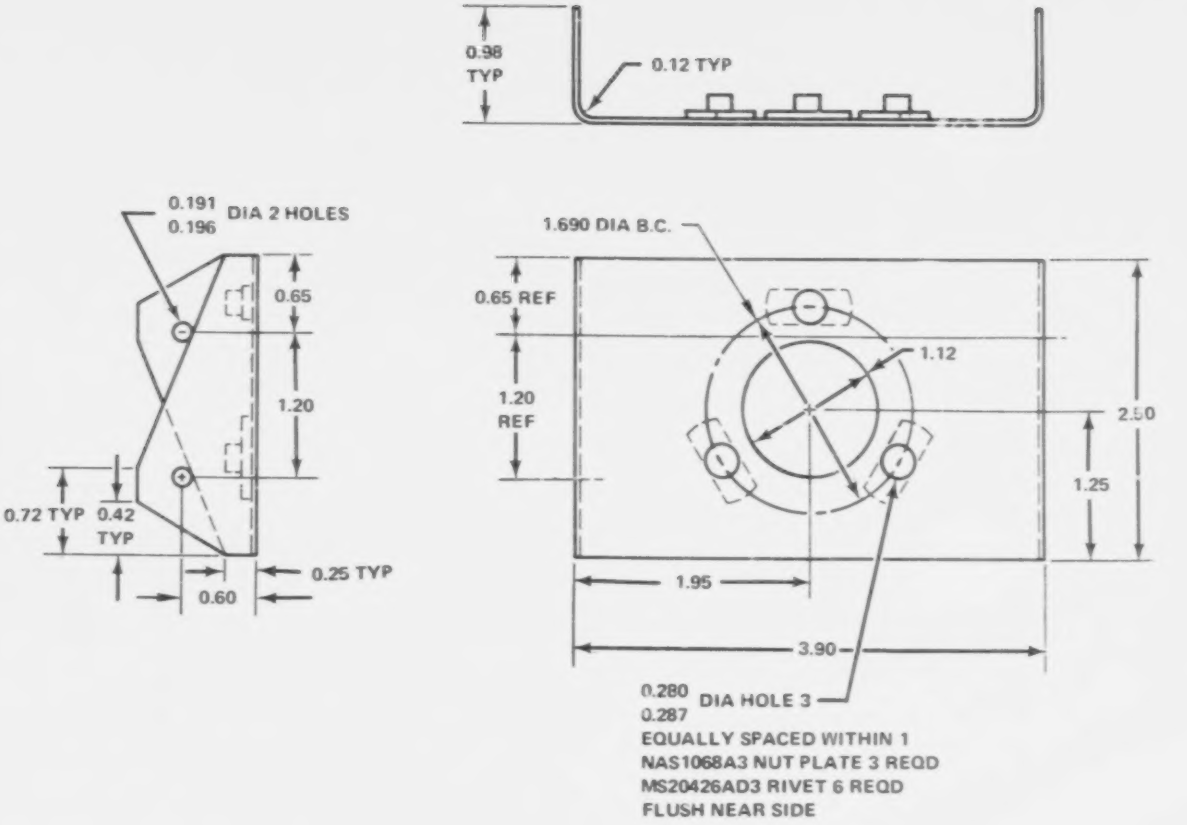

0.98
TYP
0.12 TYP
0.191
0.196
DIA 2 HOLES
0.65
1.20
0.72 TYP
0.42
TYP
0.60
0.25 TYP
1.690 DIA B.C.
0.65 REF
1.20
REF
1.12
2.50
1.25
1.95
3.90
0.280
0.287
DIA HOLE 3
EQUALLY SPACED WITHIN 1
NAS1068A3 NUT PLATE 3 REQD
MS20426AD3 RIVET 6 REQD
FLUSH NEAR SIDE

**Figure D-213.** Part Numbers 205-076-101-1 BRACKET ASSEMBLY
205-076-101-3
Fabricate from: NSN 9539-00-167-2280
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.040 Inch Thick

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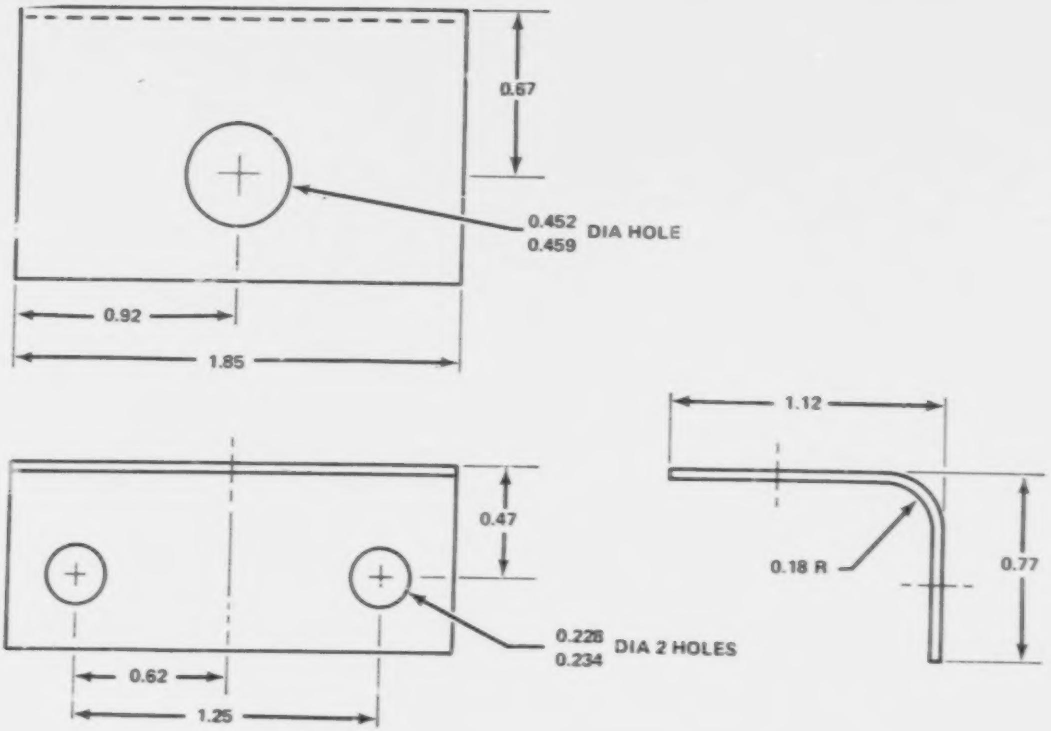

0.67
0.452
0.459
DIA HOLE
0.92
1.85
1.12
0.47
0.18 R
0.77
0.228
0.234
DIA 2 HOLES
0.62
1.25

| | |
|---|---|
| Figure D-214. Part Number | 205-076-102-1 BRACKET |
| Fabricate from: | NSN 9535-00-640-2311 |
| Material: | 2024 AL ALY Sheet, Federal Specification QQ-A-362, 0.050 Inch Thick |

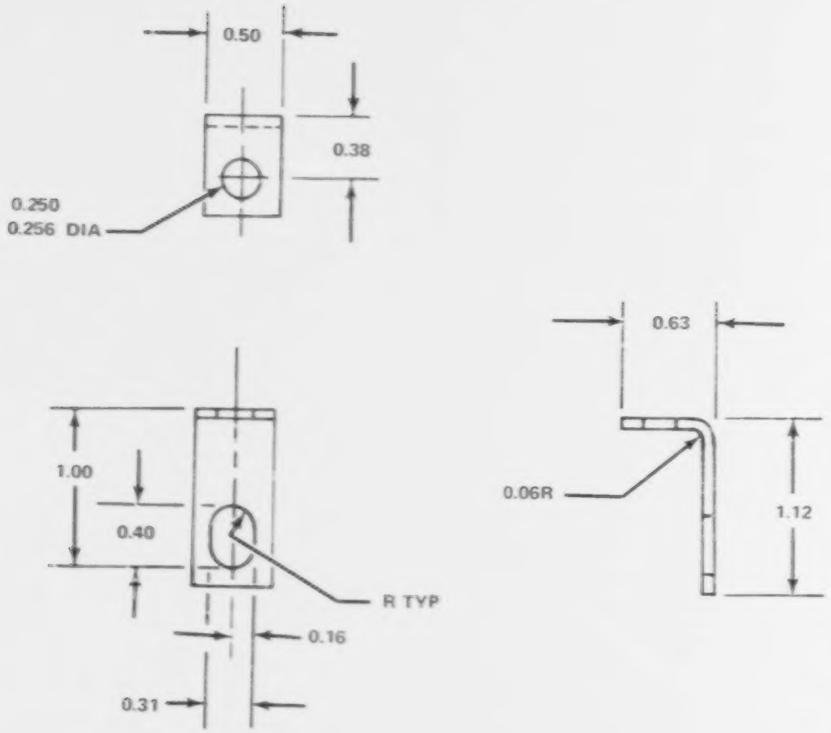

0.50
0.38
0.250
0.256 DIA
0.63
1.00
0.40
0.06R
1.12
R TYP
0.16
0.31

**Figure D-215.**

| | |
|---|---|
| Part Number | 205-076-118-1 BRACKET, Angle |
| Fabricate from: | NSN 9535-00-232-0378 |
| Material: | 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.063 Inch Thick |

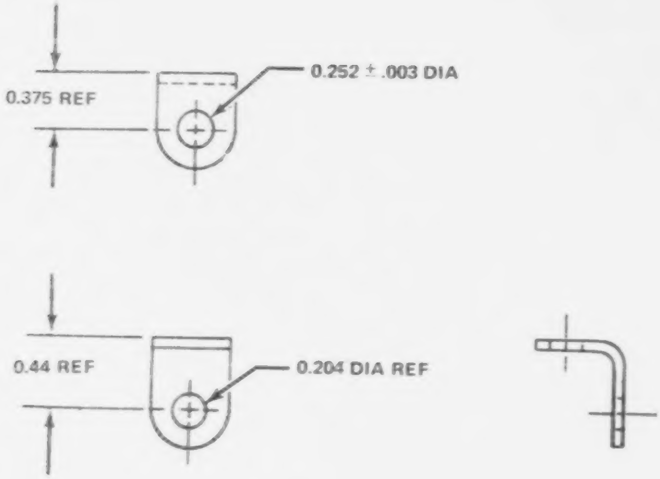

0.375 REF
0.252 ± .003 DIA
0.44 REF
0.204 DIA REF

**Figure D-216.** Part Number 205-076-230-1 BRACKET, ANGLE
Fabricate from: NSN 9535-00-232-0378
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.063 Inch Thick

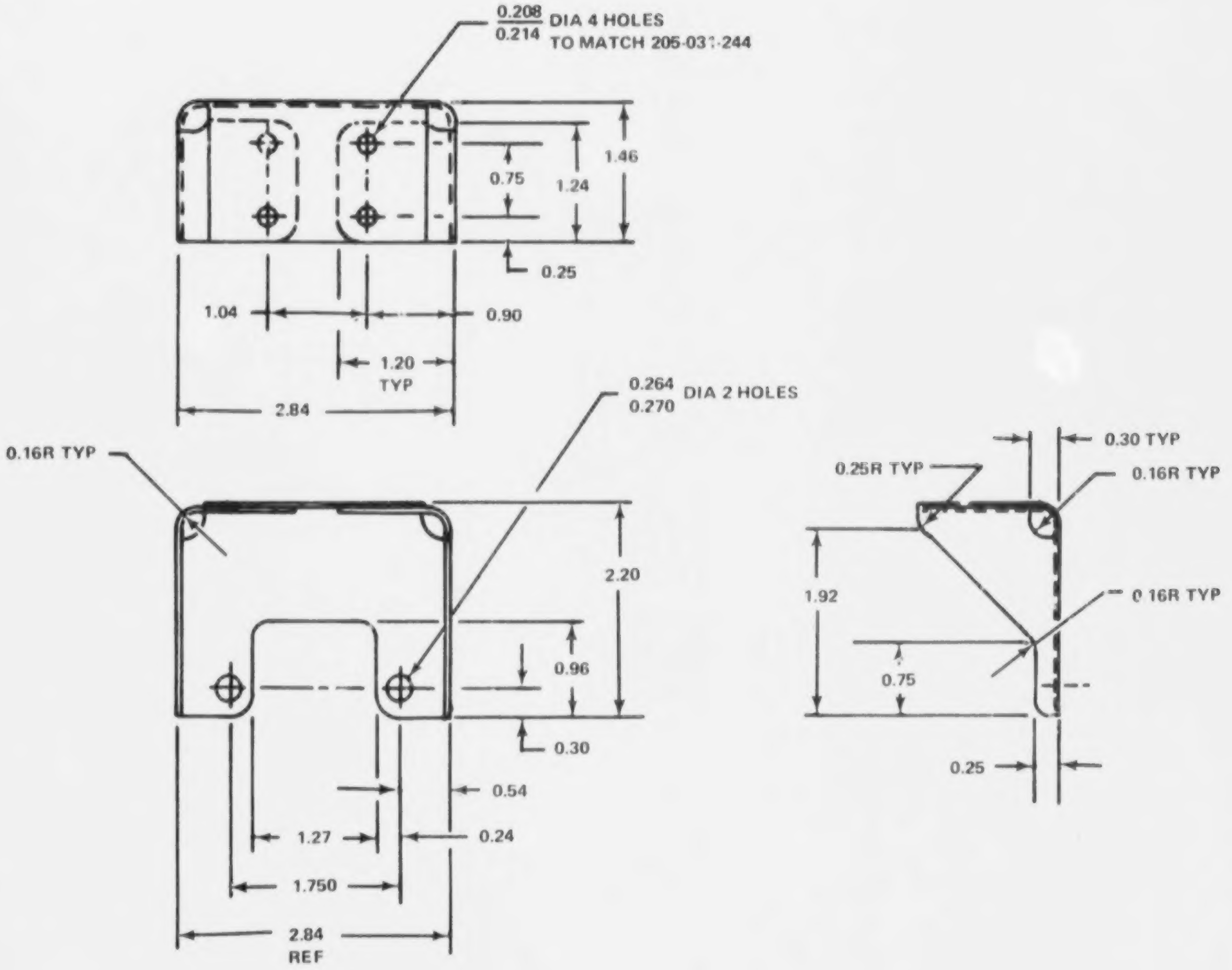
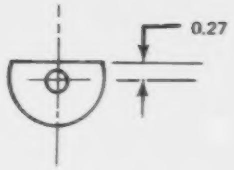
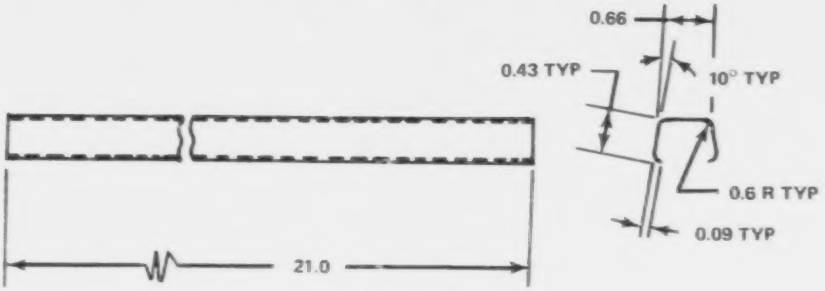

$\frac{0.208}{0.214}$ DIA 4 HOLES
TO MATCH 205-031-244
1.46
1.24
0.75
0.25
1.04
0.90
1.20
TYP
2.84
0.264
0.270
DIA 2 HOLES
0.16R TYP
2.20
0.96
0.30
0.54
0.24
1.27
1.750
2.84
REF
0.30 TYP
0.25R TYP
0.16R TYP
1.92
0 16R TYP
0.75
0.25

**Figure D-217.** Part Number 205-076-234-1 BRACKET, HYDRAULIC FILTER
Fabricate from: NSN 9535-00-167-2280
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.040 Inch Thick



DETAIL OF -11 WASHER

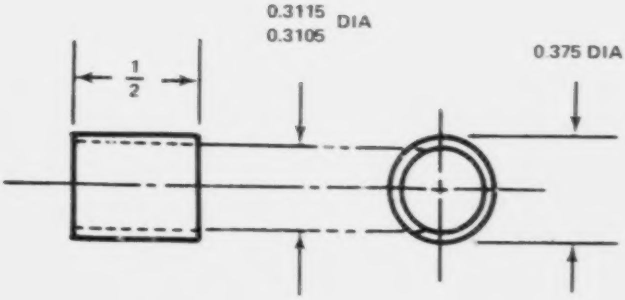

0.66
0.43 TYP
10° TYP
0.6 R TYP
0.09 TYP
21.0

DETAIL OF -15 CHANNEL

NOTES:
1. ZINC CHROMATE FINISH

**Figure D-218.**

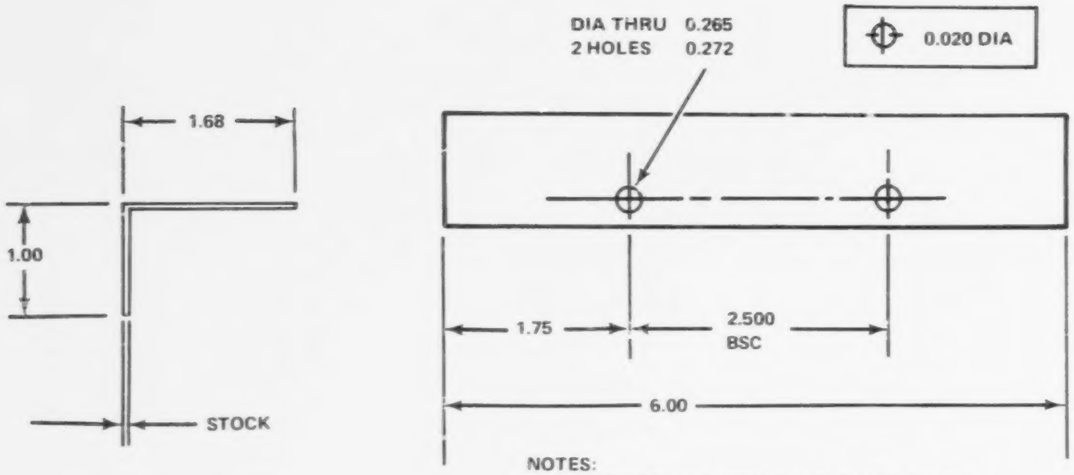
Part Number: 205-706-025-11 WASHER
Fabricate from: NSN 5310-00-167-0766
Part Number: 205-706-025-16 CHANNEL
Fabricate from: NSN 9535-00-232-0543
Material: Washer, Flat Steel, Cadmium Plated Make From AN970-4 Washer
2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.016 Inch Thick


0.3115
0.3105 DIA
0.375 DIA
$\frac{1}{2}$

NOTE:
1. BREAK SHARP EDGES 0.005 TO 0.010

**Figure D-219.**

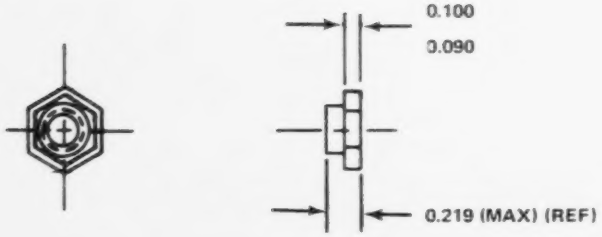
Part Number: 11021-1 SLEEVE, Solenoid Shaft
Fabricate from: NSN 9510-00-229-4818
Material: Steel Bar, Carbon, Cold, Federal Specification QQ-S-634, Comp C1045, 0.375 Inch Dia


DIA THRU 0.265
2 HOLES 0.272
0.020 DIA
1.68
1.00
STOCK
1.75
2.500
BSC
6.00

NOTES:

1. REMOVE ALL BURRS AND SHARP EDGES
2. FINISH 4.3 + 20.5 of MIL-STD-171. ONE COAT MIL-P-8585 PRIMER COATING PRIOR TO ONE COAT TT-E-516 ENAMEL.
3. HAND FORM AFT EDGE OF RUNNER OVER BACK PANEL EDGE DURING INSTL.

| **Figure D-220.** | | |
|---|---|---|
| | Part Number | 178065-1 RUNNER, Metal |
| | Fabricate from: | NSN 9535-00-167-2279 |
| | Material: | 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.032 Inch Thick |


0.100
0.090
0.219 (MAX) (REF)

| **Figure D-221.** | | |
|---|---|---|
| | Part Number | 528307, NUT, Self-Locking |
| | Fabricate from: | NSN 5310-00-807-1475 |
| | Material: | |

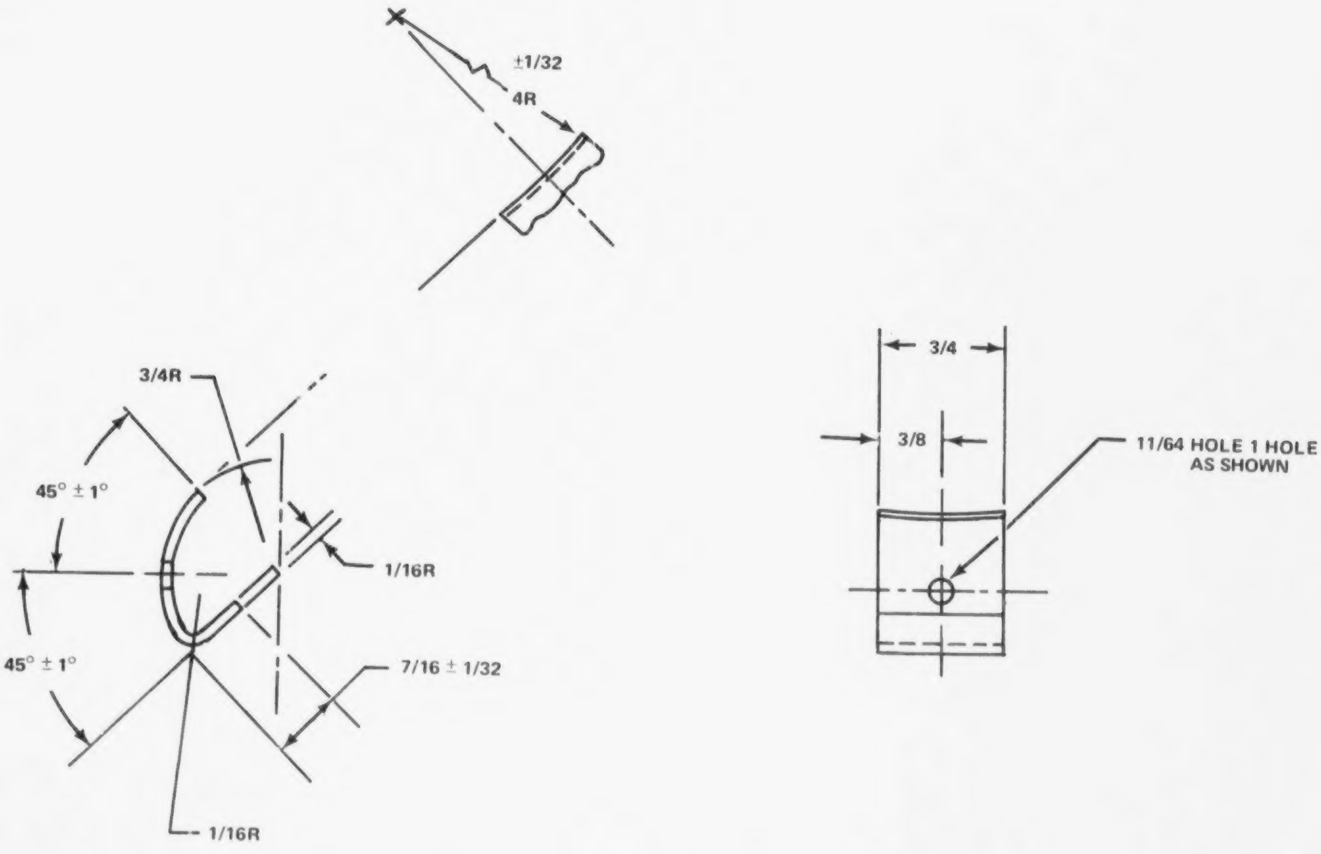
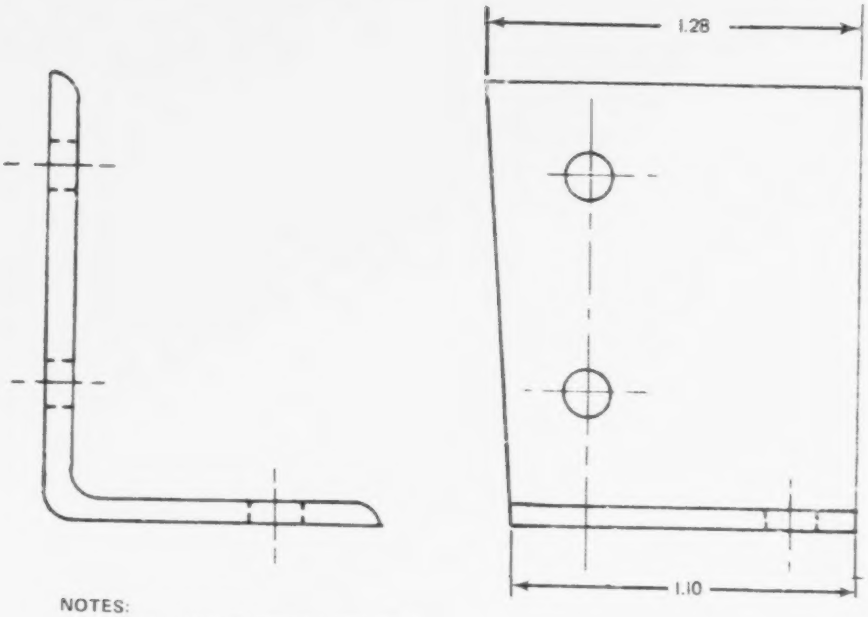

±1/32
4R
3/4R
45° ± 1°
45° ± 1°
1/16R
7/16 ± 1/32
1/16R
3/4
3/8
11/64 HOLE 1 HOLE AS SHOWN

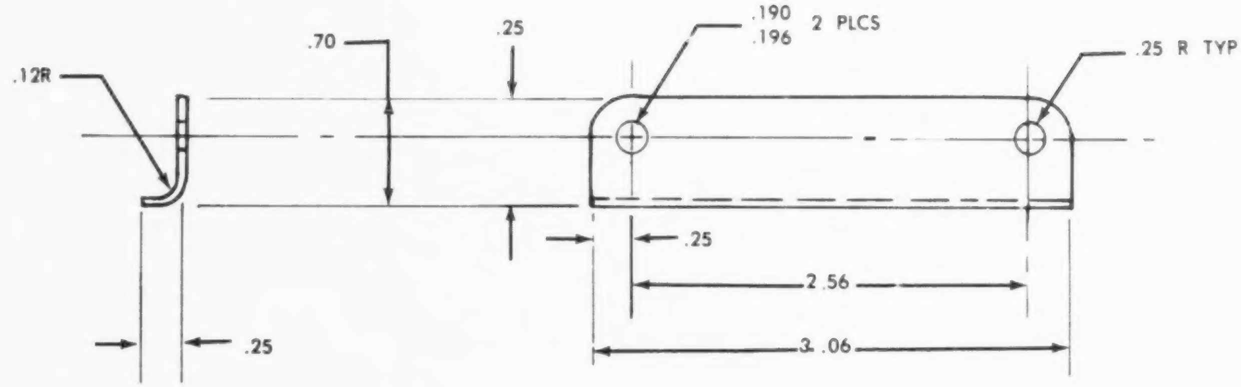
**Figure D-222.** Part Number 9524491 CLIP, VALVE
Fabricate from: NSN 9535-00-554-1417
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.063 Inch Thick



NOTES:
1. DRILL HOLES UPON ASSEMBLY
2. CUT WIDTH FROM BULK STOCK AS SHOWN

**Figure D-223.**

| | |
|---|---|
| Part Numbers | 205-030-919-37 SHN CLIP<br>205-030-919-38 OPP |
| Fabricate from: | NSN 9540-00-145-5715 |
| Material: | 2024 AL ALY Structural Angle Aluminum, Make From AND10134-2001 |


.12R
.70
.25
.190
.196
2 PLCS
.25 R TYP
.25
2.56
3.06
.25

PART NUMBER 205-060-202 LINK

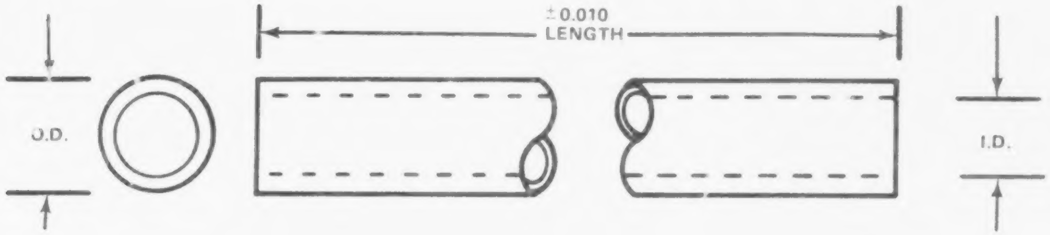
FABRICATE FROM: NSN 9535-00-167-280

MATERIAL: 2024 AL ALY SHEET,

FEDERAL SPEC QQ-A-250/5 .040 INCH THICK

FIGURE D-224

| PART NUMBER | NOMENCLATURE | FABRICATE FROM | ID | OD | LENGTH |
|---|---|---|---|---|---|
| E1112-32-14 | SLEEVE-INSULATING | 5970-00-235-2728 | 0.375 | 0.400 | AS REQD. |
| Y1152-1-6 | " | 5970-00-235-2721 | 0.057 | 0.086 | AS REQD. |
| Y1152-1-11 | " | 5970-00-235-2733 | 0.102 | 0.121 | AS REQD. |
|  |  |  |  |  |  |


±0.010
LENGTH
O.D.
I.D.

Sleeve-Insulating

Figure D-225.

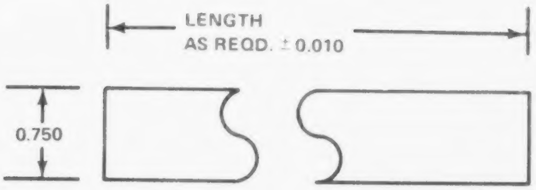
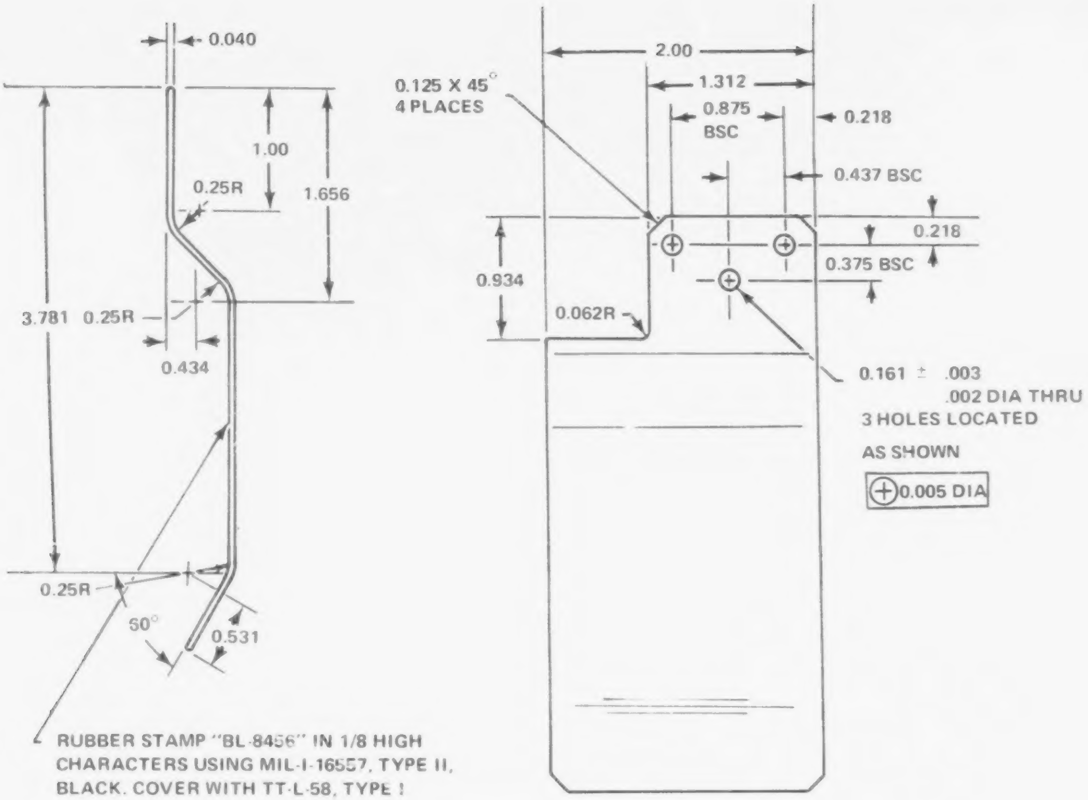

LENGTH
AS REQD. ± 0.010
0.750

**Figure D-226.** Part Number: Y-1159-2-3, Tape, Glass Cloth, Pressure Sensitive
Fabricate from: NSN 5970-00-284-8565
Material:

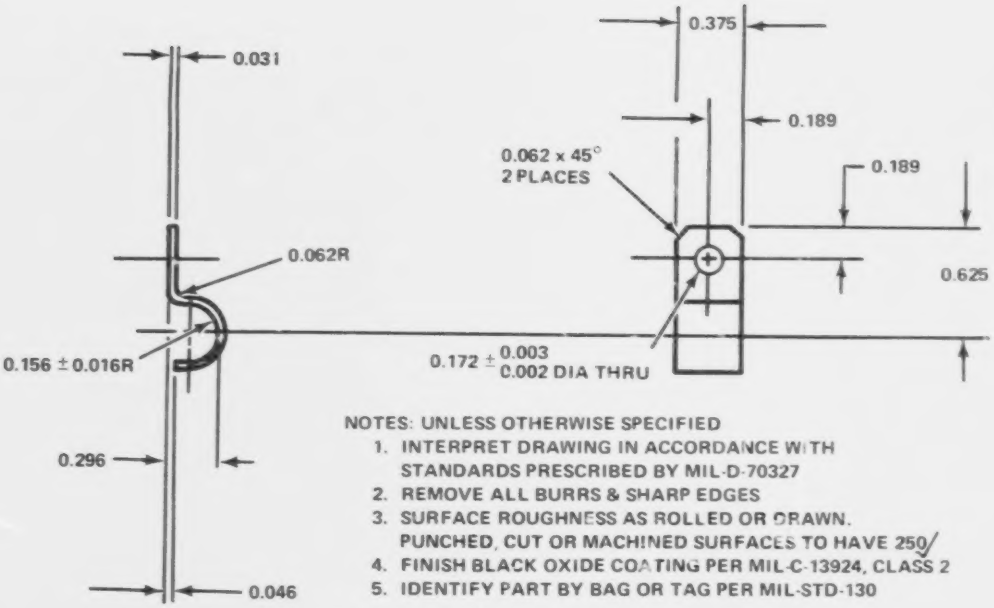

0.040
1.00
0.25R
1.656
3.781
0.25R
0.434
0.25R
60°
0.531
2.00
1.312
0.875 BSC
0.218
0.125 X 45° 4 PLACES
0.437 BSC
0.218
0.375 BSC
0.934
0.062R
0.161 ± .003 .002 DIA THRU
3 HOLES LOCATED
AS SHOWN
⊕ 0.005 DIA

RUBBER STAMP "BL-8456" IN 1/8 HIGH CHARACTERS USING MIL-I-16557, TYPE II, BLACK. COVER WITH TT-L-58, TYPE I

NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. REMOVE ALL BURRS & SHARP EDGES.
3. SURFACE ROUGHNESS AS ROLLED OR DRAWN. PUNCHED, CUT, OR MACHINED SURFACES TO HAVE 250✓
4. FINISH ALL OVER WITH CHEMICAL FILM PER MIL-C-5541, TYPE I, CLASS 1, GRADE C.

**Figure D-227.** Part Number: BL8456 FMC08484 Shroud, Motor, Right Side
Fabricate from: NSN 9515-00-580-0405
Material:

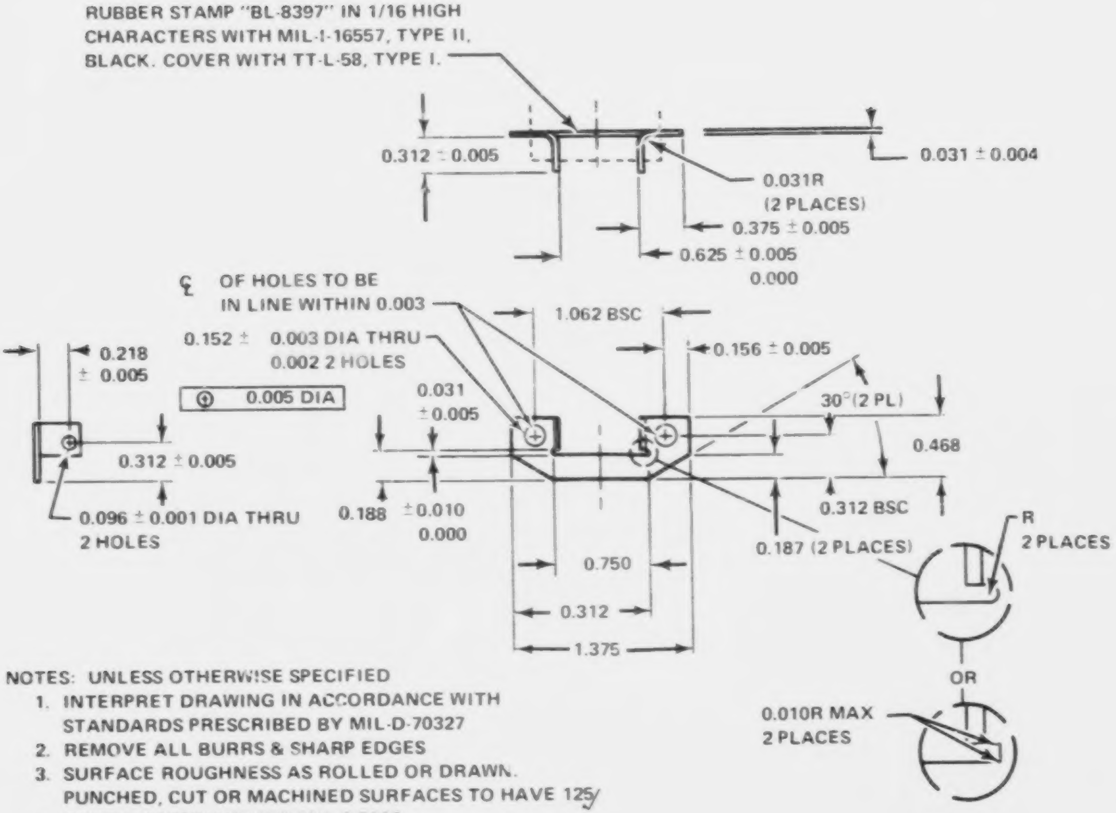

0.375
0.031
0.189
0.062 x 45°
2 PLACES
0.189
0.062R
0.625
0.156 ± 0.016R
0.172 ± 0.003 / 0.002 DIA THRU
0.296
0.046

NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. REMOVE ALL BURRS & SHARP EDGES
3. SURFACE ROUGHNESS AS ROLLED OR DRAWN. PUNCHED, CUT OR MACHINED SURFACES TO HAVE 250√
4. FINISH BLACK OXIDE COATING PER MIL-C-13924, CLASS 2
5. IDENTIFY PART BY BAG OR TAG PER MIL-STD-130

**Figure D-228.**

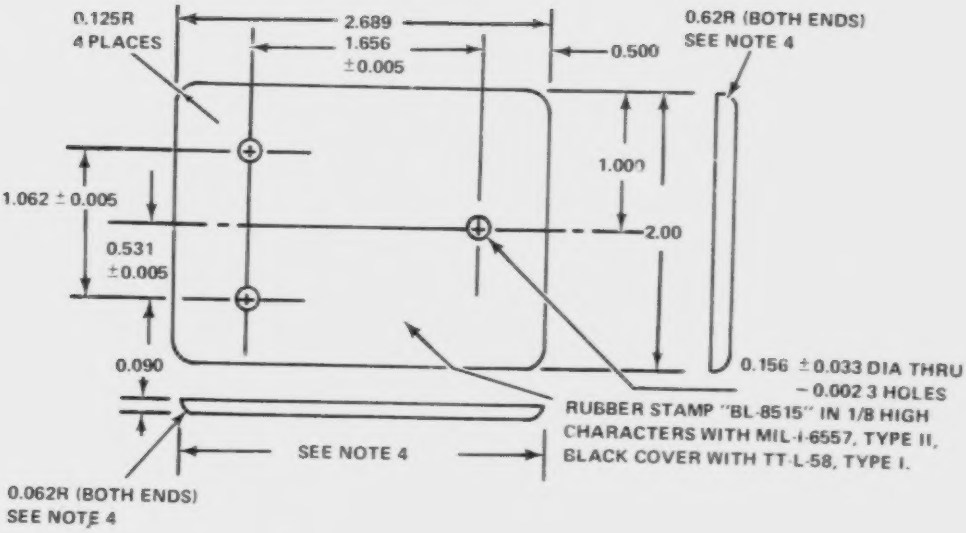
| | |
|---|---|
| Part Number | BL8453 FMC03484 Clamp, Cable |
| Fabricate from: | NSN 9535-00-580-5516 |
| Material: | Metal Strip-Steel Corrosion, Federal Specification MIL-S-5059, Comp 201, 0.032 Inch Thick |


RUBBER STAMP "BL-8397" IN 1/16 HIGH CHARACTERS WITH MIL-I-16557, TYPE II, BLACK. COVER WITH TT-L-58, TYPE I.
0.312 ± 0.005
0.031 ± 0.004
0.031R (2 PLACES)
0.375 ± 0.005
0.625 ± 0.005 0.000
℄ OF HOLES TO BE IN LINE WITHIN 0.003
1.062 BSC
0.152 ± 0.003 DIA THRU 0.002 2 HOLES
0.156 ± 0.005
0.218 ± 0.005
⊕ 0.005 DIA
0.031 ± 0.005
30° (2 PL)
0.468
0.312 ± 0.005
0.312 BSC
0.096 ± 0.001 DIA THRU 2 HOLES
0.188 ± 0.010 0.000
0.187 (2 PLACES)
R 2 PLACES
0.750
0.312
1.375
OR
0.010R MAX 2 PLACES

NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. REMOVE ALL BURRS & SHARP EDGES
3. SURFACE ROUGHNESS AS ROLLED OR DRAWN. PUNCHED, CUT OR MACHINED SURFACES TO HAVE 125/
4. FINISH: PASSIVATE PER MIL-S-5002

**Figure D-229.** Part Number BL8379 FMC08484 Bracket, Trunnion Actuator
Fabricate from: NSN 9515-00-580-5516
Material: Metal Strip-Steel Corrosion, Federal Specification MIL-S-5059 Comp 302, 0.032 Inch Thick

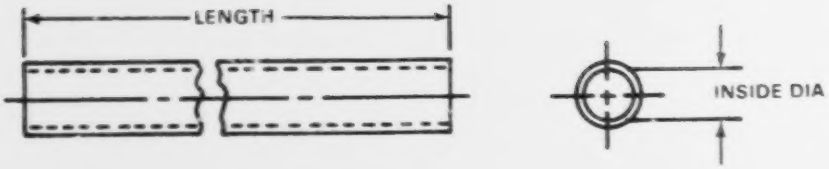

0.125R
4 PLACES
2.689
1.656
±0.005
0.500
0.62R (BOTH ENDS)
SEE NOTE 4
1.000
2.00
1.062 ± 0.005
0.531
±0.005
0.090
0.156 ±0.033 DIA THRU
−0.002 3 HOLES
RUBBER STAMP "BL-8515" IN 1/8 HIGH CHARACTERS WITH MIL-I-6557, TYPE II, BLACK COVER WITH TT-L-58, TYPE I.
SEE NOTE 4
0.062R (BOTH ENDS)
SEE NOTE 4

NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. REMOVE ALL BURRS & SHARP EDGES
3. SURFACE ROUGHNESS AS ROLLED OR DRAWN. PUNCHED, CUT OR MACHINED SURFACES TO HAVE 250
4. SURFACES DESIGNATED SHALL BE SMOOTH AND FREE OF SCRATCHES, BURRS OR PITS WITH SHARP EDGES; LIQUID HONE WITH 325 GRIT OR ACHIEVE EQUIVALENT FINISH BY OTHER MEANS IF NECESSARY TO MEET THE ABOVE REQUIREMENTS.
5. FINISH: ANODIZE PER MIL-A-8625, TYPE 1.

**Figure D-230.**

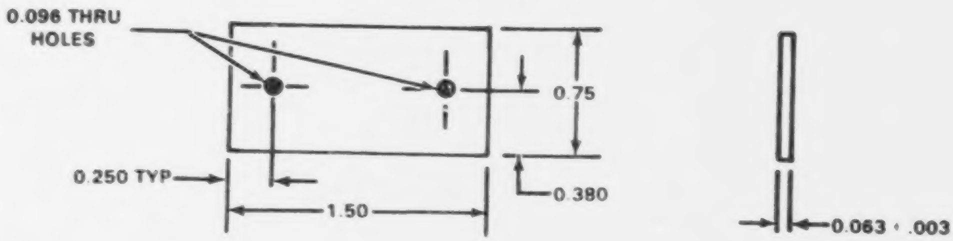
| | |
|---|---|
| Part Number | BL8515 FMC08484 Retainer, Rectifier Bracket |
| Fabricate from: | NSN 9535-00-232-0405 |
| Material: | |



Tube Insulating

| PART NUMBER | ITEM NAME | FABRICATE FROM NSN | LENGTH |
|---|---|---|---|
| 130-005-4-12 | TUBE | 5970-00-088-2975 | 6.00 |
| 130-005-5-2 | TUBE | 5970-00-954-1622 | 1.00 |
| 130-005-6-10 | TUBE | 5970-00-815-1295 | 5.00 |
| 130-005-6-24 | TUBE | 5970-00-815-1295 | 12.00 |
| 130-005-6-58 | TUBE | 5970-00-815-1295 | 29.00 |
| 130-005-7-4 | TUBE | 5970-00-954-1624 | 2.00 |
| 130-005-7-10 | TUBE | 5970-00-954-1624 | 5.00 |
| 130-005-7-26 | TUBE | 5970-00-954-1624 | 13.00 |
| 130-005-7-50 | TUBE | 5970-00-954-1624 | 25.00 |
| 130-005-7C4 | TUBE | 5970-00-740-2971 | 2.00 |
| 130-005-8-4 | TUBE | 5970-00-812-2967 | 2.00 |
| 130-005-9-6 | TUBE | 5970-00-914-3118 | 3.00 |

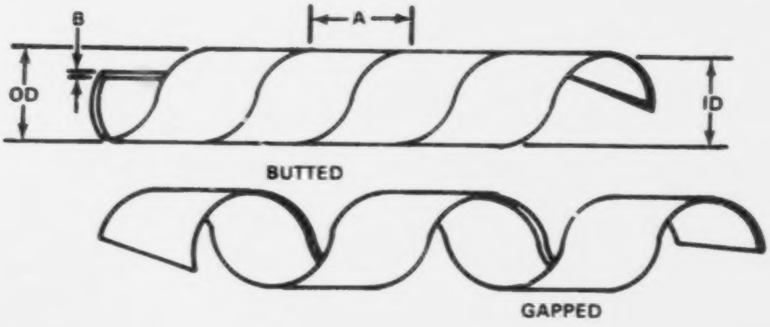
Figure D-232.



NOTES:

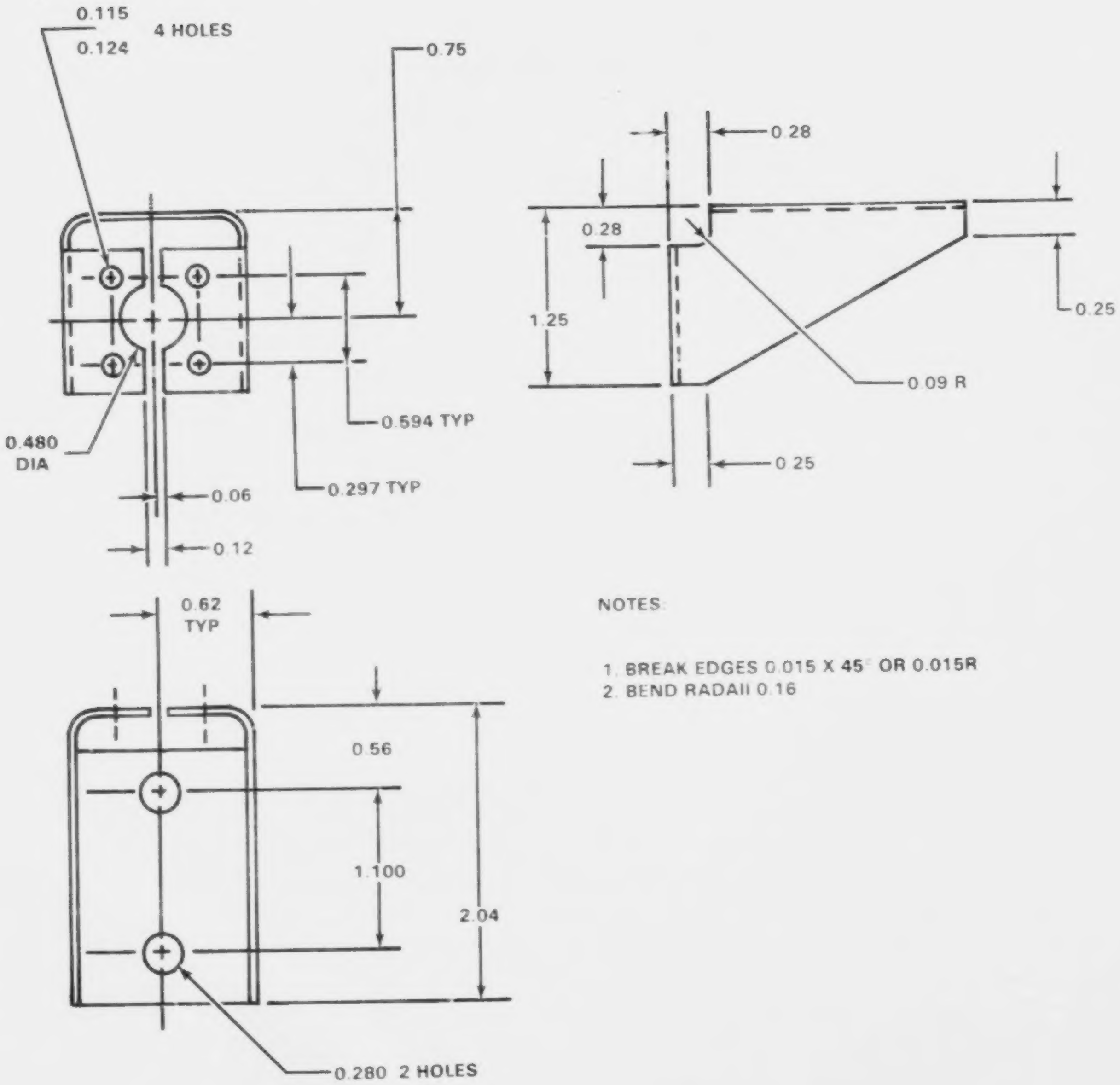
1. PART TO BE LEGIBLY MARKED WITH BHT PART NUMBER.
2. PRODUCT OF THE POLYMER CORP., READING PA. CODE IDENT # 83616.
3. PART SHALL BE FREE OF ALL SHARP EDGES AND SHARP CORNERS.
4. MATERIAL: NYLATRON GS

Figure D-233. Part Number 120-069-1 STRIP — ANTICHAFING
Fabricate from: NSN 9330-00-143-8604
Material: Plastic Sheet 0.063 Inch Thick, 0.75 Inch Wide, 1.5 Inch Long



| PART NUMBER | ID | OD | A | B | LENGTH IN INCHES |
|---|---|---|---|---|---|
| 120-067B020 | 0.436 | 0.500 ±0.020 | 0.500 ±0.015 | 0.032 ±0.010 | 20 |
| 120-067B17 | 0.436 | 0.500 ±0.020 | 0.500 ±0.015 | 0.032 ±0.010 | 17 |

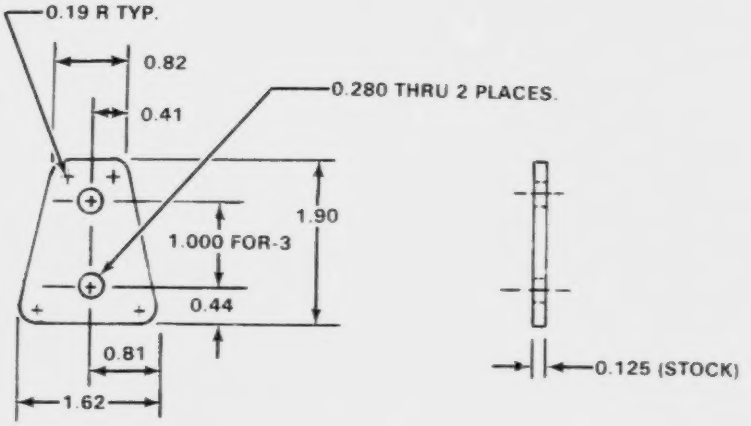
Figure D-234. Part Number 120-067B020 SLEEVE — Protective Coil
Fabricate from: NSN 4720-00-011-2000
Material: Nylon


0.115
0.124
4 HOLES
0.75
0.28
0.28
1.25
0.25
0.09 R
0.25
0.480
DIA
0.594 TYP
0.297 TYP
0.06
0.12
0.62
TYP
0.56
1.100
2.04
0.280 2 HOLES

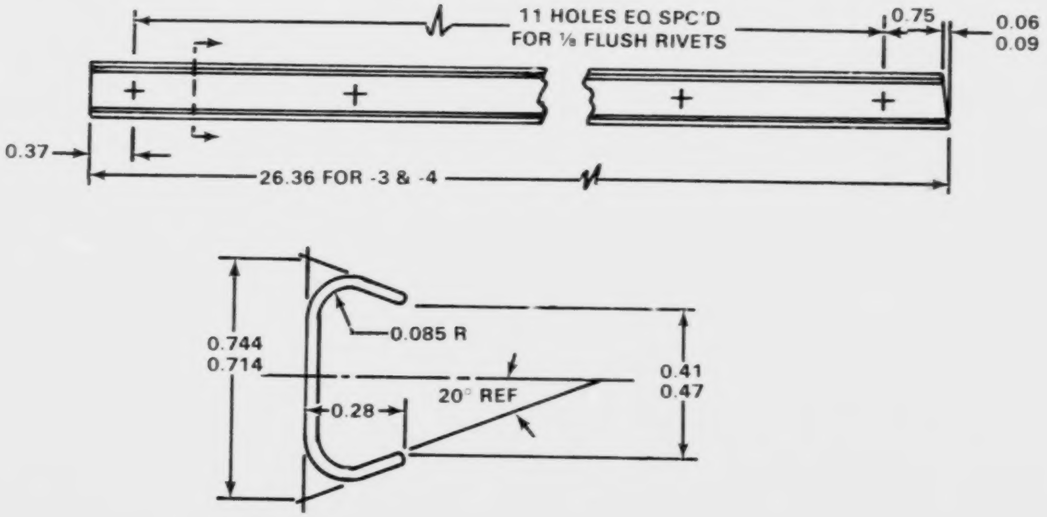
NOTES:

1. BREAK EDGES 0.015 X 45° OR 0.015R
2. BEND RADAII 0.16

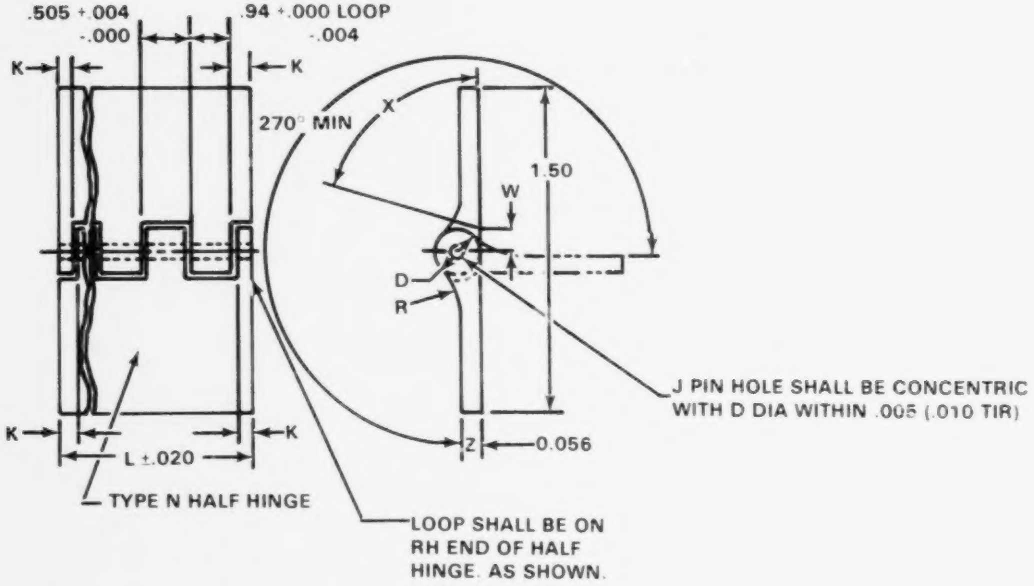
Figure D-235. **Part Number** **204-011-059-1 BRACKET**
**Fabricate from:** **NSN 9535-00-086-9930**
**Material:** **2024 AL ALY SHEET, Federal Specification QQ-A-250/4, T3 040 Inch Thick, 2.5 Inch Wide, 4.3 Inch Long**


0.19 R TYP.
0.82
0.41
0.280 THRU 2 PLACES.
1.90
1.000 FOR-3
0.44
0.81
1.62
0.125 (STOCK)

| | |
|---|---|
| Figure D-236. Part Number | 204-012-022-3 RETAINER — Weight |
| Fabricate from: | NSN 9535-00-232-0479 |
| Material: | 2024 AL ALY Sheet, Federal Specification QQ-A-250/4, T3, 0.125 Inch Thick, 2.2 Inch Wide, 2.4 Inch Long |


11 HOLES EQ SPC'D
FOR ⅛ FLUSH RIVETS
0.75
0.06
0.09
0.37
26.36 FOR -3 & -4
0.085 R
0.744
0.714
0.41
0.47
20° REF
0.28

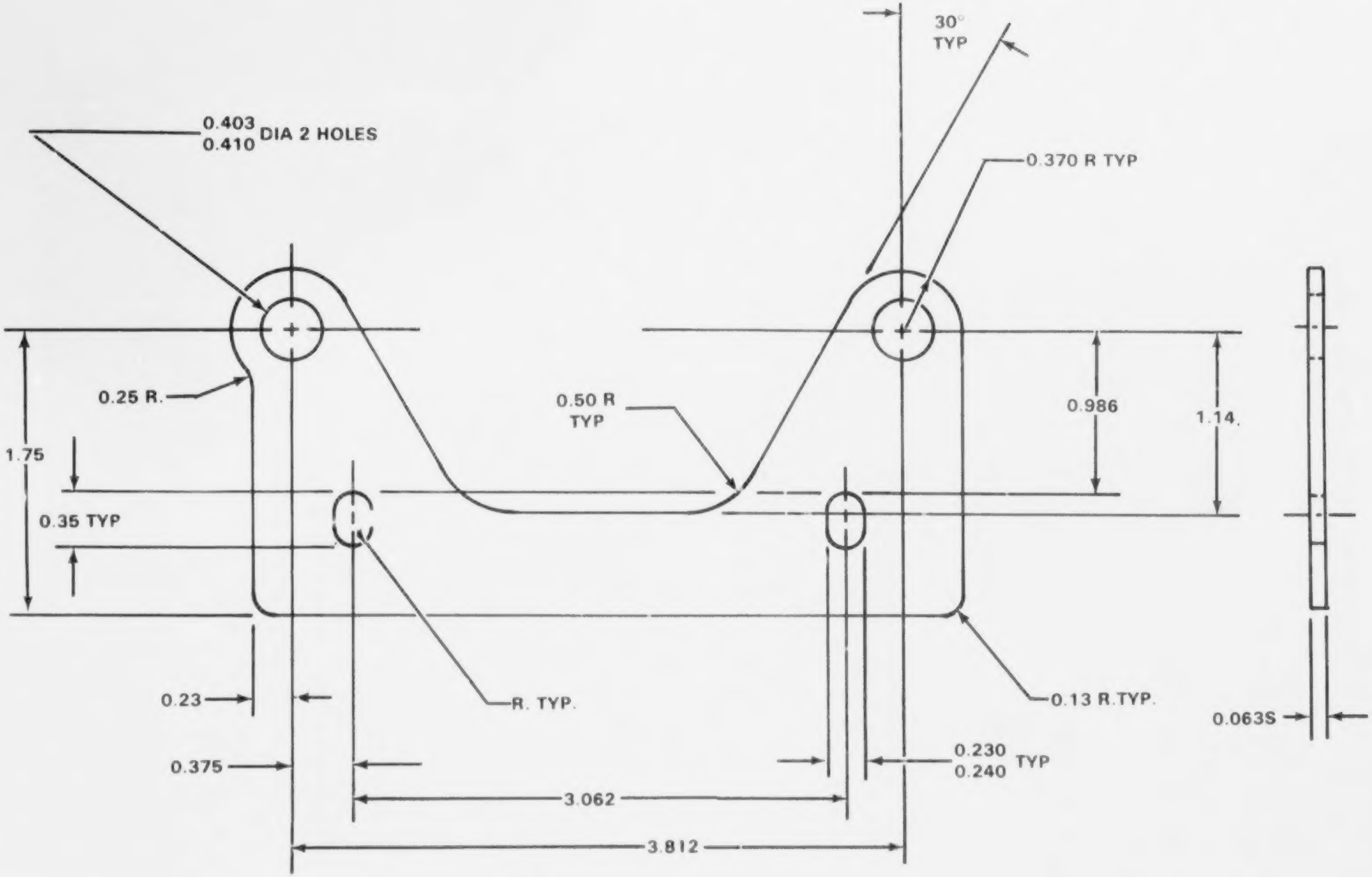
| | |
|---|---|
| Figure D-237. Part Number | 204-030-458-4 RETAINER, Window Channel Crew Door |
| Fabricate from: | NSN 9535-00-085-4157 |
| Material: | 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, T-0, 0.32 Inch Thick, 1.5 Inch Wide, 27.0 Inch Long |


.505 +.004 -.000
.94 +.000 -.004 LOOP
K
K
270° MIN
X
1.50
W
D
R
K
K
L ±.020
Z
0.056
TYPE N HALF HINGE
LOOP SHALL BE ON RH END OF HALF HINGE. AS SHOWN.
J PIN HOLE SHALL BE CONCENTRIC WITH D DIA WITHIN .005 (.010 TIR)

| THICKNESS | WIDTH | LENGTH |
|---|---|---|
| 0.056 | 1.50 | 24.00 |

Figure D-238.

| | |
|---|---|
| **Part Number** | **204-030-829-15 HINGE HALF**<br>**204-030-829-27 HINGE HALF** |
| **Fabricate from:** | **NSN 5340-00-949-8274** |
| **Material:** | **Leaf, Butt Hinge AL ALY Anodized, 0.056 Inch Thick, 0.495 Inch Wide Half Hinge, 1.50 Inch Total Width Make From MS20001P4-2400-Length 24.00** |


0.403
0.410 DIA 2 HOLES
30° TYP
0.370 R TYP
0.25 R.
0.50 R TYP
0.986
1.14
1.75
0.35 TYP
0.23
R. TYP.
0.13 R.TYP.
0.063S
0.375
0.230
0.240 TYP
3.062
3.812

NOTES:

1. BREAK SHARP EDGES 0.015R or 0.015, 40°-50° CHAMP

Figure D-239. Part Number 204-040-848-1 BRACKET
Fabricate from: NSN 9535-00-554-1417
Material: 2024 AL ALY SHEET, Federal Specification QQ-A-250/5 T-3, 0.063 Inch Thick, 2.6 Inches Wide, 5.0 Inches Long

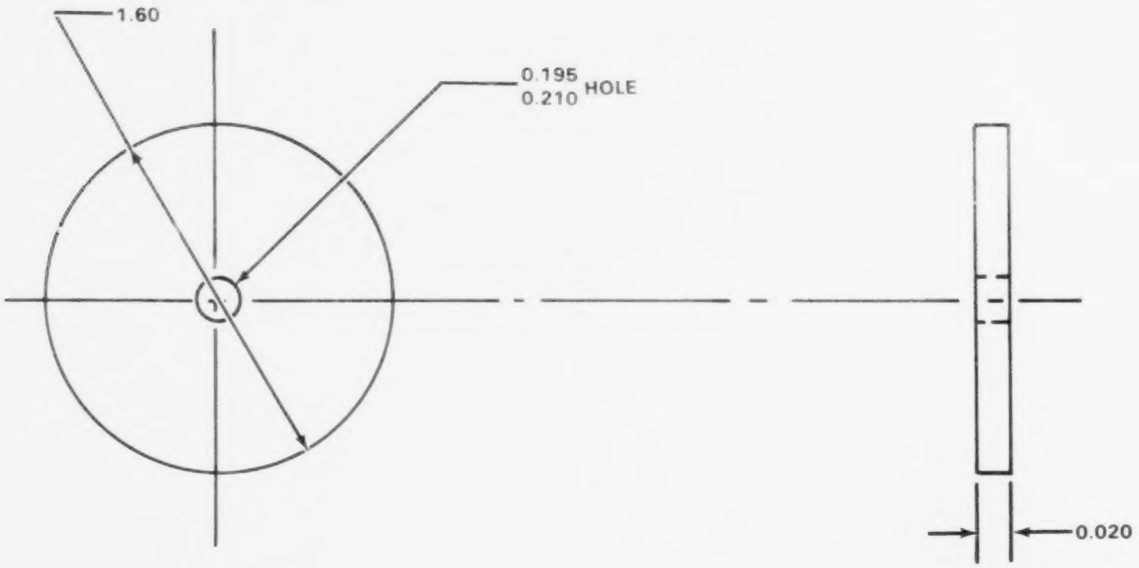

1.60
0.195
0.210 HOLE
0.020

Figure D-240. Part Number 204-060-224-9 PLATE
Fabricate from: NSN 9535-00-084-4484
Material: 2024 AL ALY SHEET, Federal Specification QQ-A-250/5, T-3, 0.020 Inch Thick, 2.1 Inches Wide, 2.1 Inches Long

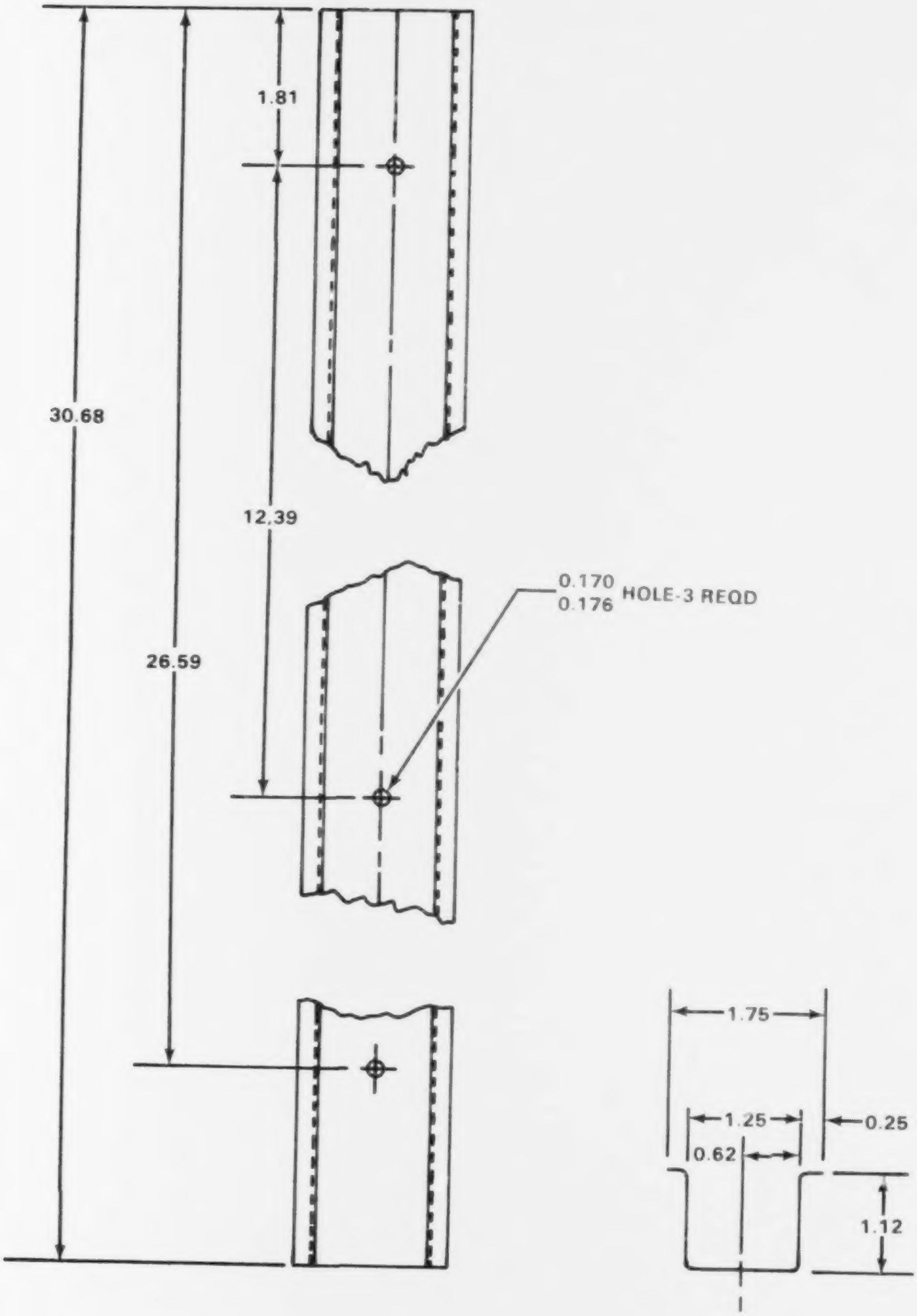

1.81
30.68
12.39
26.59
0.170
0.176 HOLE-3 REQD
1.75
1.25
0.25
0.62
1.12

Figure D-241. **Part Number** **204-030-665-11 CHANNEL**
**Fabricate from:** **NSN 9535-00-167-2174**
**Material:** **2024 AL ALY SHEET, Federal Specification QQ-A-250/5, T-3, 0.016 Inch Thick, 4.3 Inches Wide, 31.0 Inches Long**

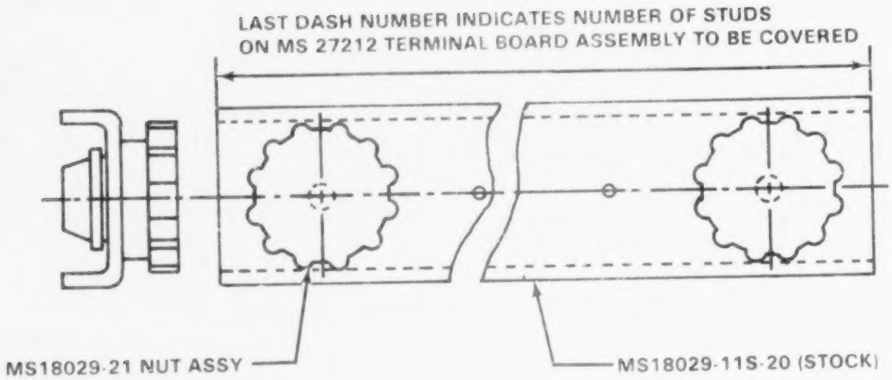
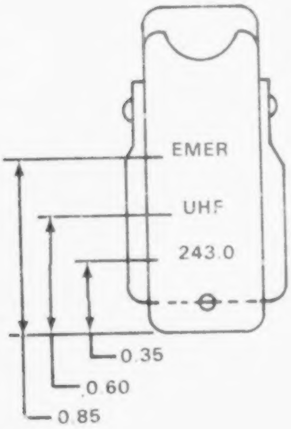

LAST DASH NUMBER INDICATES NUMBER OF STUDS
ON MS 27212 TERMINAL BOARD ASSEMBLY TO BE COVERED
MS18029-21 NUT ASSY
MS18029-11S-20 (STOCK)

Figure D-242. Part Number MS18029-1S1
MS18029-1S10
MS18029-1S14
MS18029-1S15
Terminal Board Cover

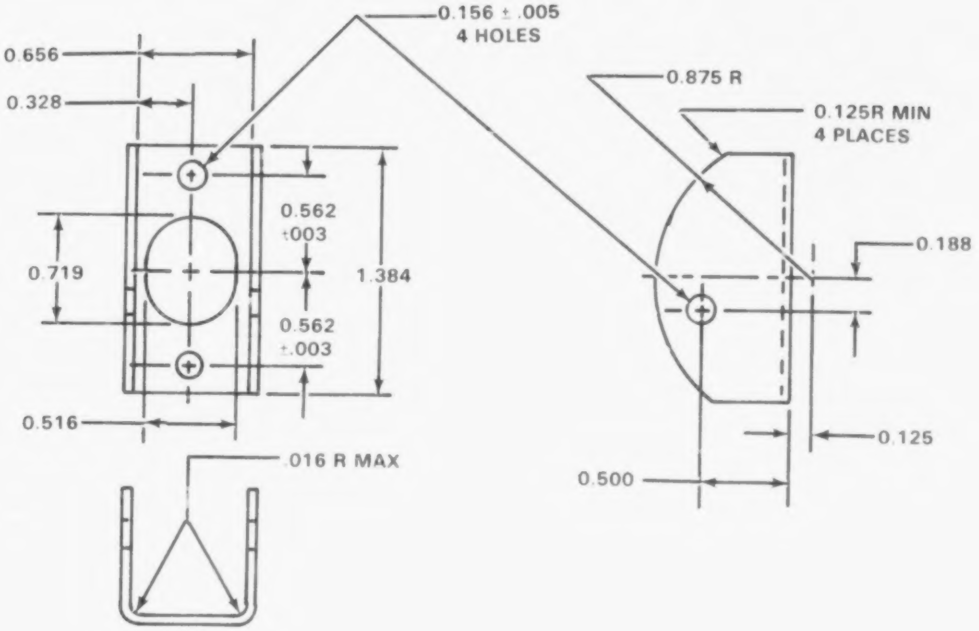
Fabricate from: NSN 5940-00-082-4642, MS18029-11S20 COVER, NSN 5940-00-907-5939, MS18029-21 NUT ASSY


EMER
UHF
243.0
0.35
0.60
0.85

NOTES:

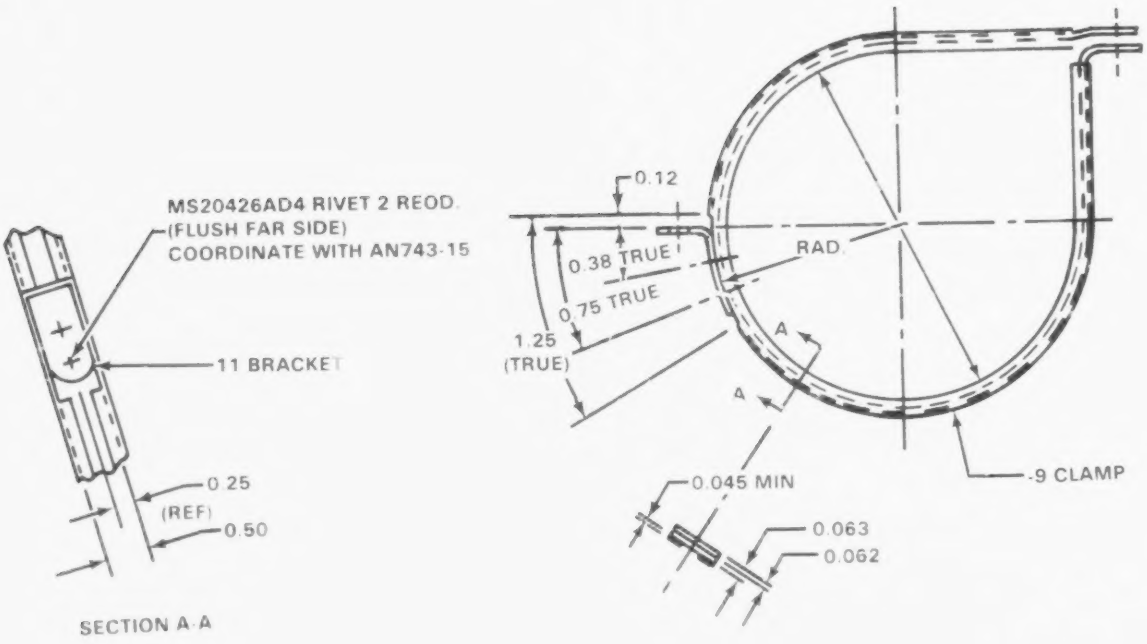
1. EACH LINE OF LETTERING SHALL BE HORIZONTALLY CENTERED ON THE SWITCH GUARD FACE.
2. LETTERS SHALL BE ENGRAVED .16 HEIGHT, AND FILLED WITH WHITE MONOFIL.
3. MAKE FROM MS25224-1 SWITCH GUARD.
4. IDENTIFY WITH BHT PART NO.

Figure D-243. Part Number 90-045-5 GUARD-SWITCH Engraved Lettering
Fabricate from: NSN 5930-00-615-6731, MS25224-1 GUARD SWITCH


0.156 ± .005
4 HOLES
0.656
0.328
0.875 R
0.125R MIN
4 PLACES
0.562
±003
0.719
1.384
0.562
±.003
0.188
0.516
.016 R MAX
0.125
0.500

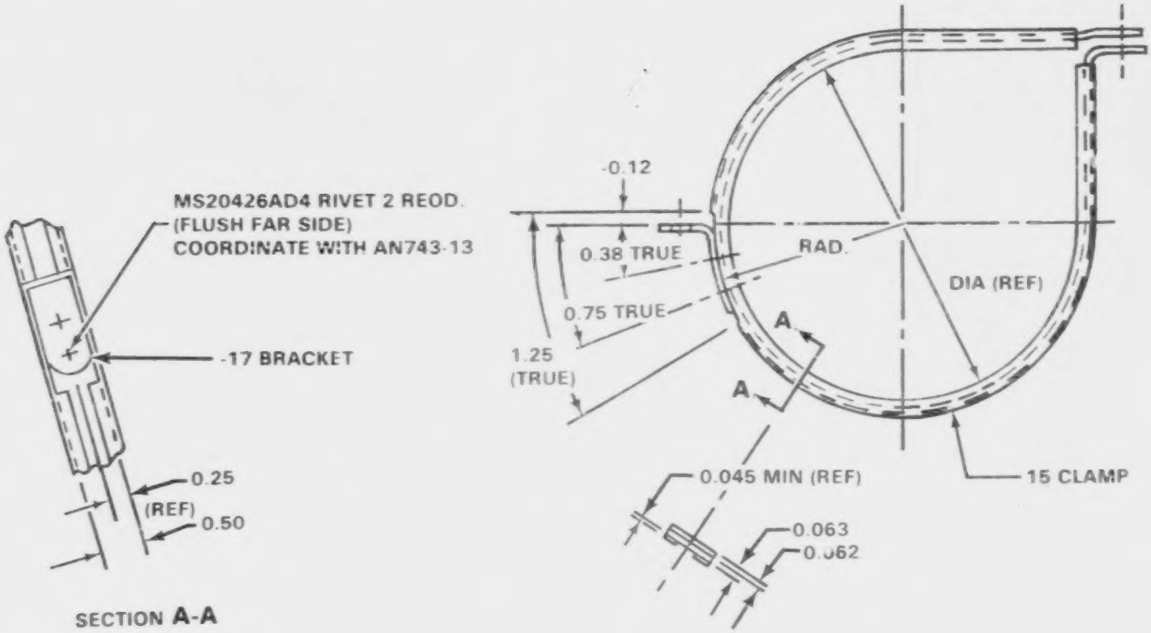
NOTES:
1. MAY BE MADE FROM MS25221-1 GUARD
2. PART TO BE SMOOTH AND FREE OF BURRS
3. FINISH GUARD WITH INSTRUMENT BLACK ENAMEL, MIL-E-5557 COLOR 27038, FED STD 595.
4. IDENTIFY WITH B:HT PART NO.

Figure D-244. Part Number: 90-047-1 GUARD-SWITCH, Special
Fabricate from: NSN 5930-00-990-5766,
MS 25221-1 GUARD


MS20426AD4 RIVET 2 REQD.
(FLUSH FAR SIDE)
COORDINATE WITH AN743-15
11 BRACKET
0.25
(REF)
0.50
SECTION A-A
0.12
0.38 TRUE
0.75 TRUE
1.25
(TRUE)
RAD.
A
A
0.045 MIN
0.063
0.062
-9 CLAMP

NOTES:
1. PART NO. 204-070-048-9 CLAMP—MAY BE MADE FROM ALTERED MS219190G48 CLAMP NSN 5340-00-514-3017
2. PART NO. 204-070-048-11 BRACKET—MAY BE MADE FROM ALTERED AN743-13 BRACKET NSN 5340-00-721-8182
3. RIVET THE ALTERED AN743-13 BRACKET TO CLAMP WITH MS20426AD4 RIVETS

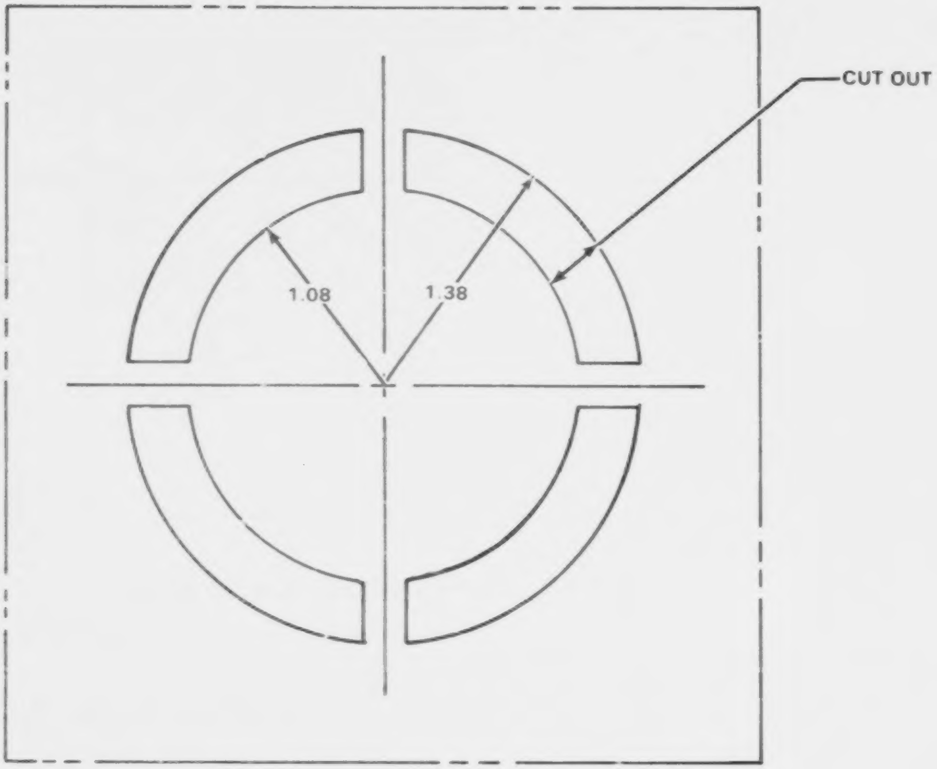
Figure D-245. Part Number: 204-070-048-7 CLAMP Assembly
Fabricate from: NSN 5340-00-514-3017
NSN 5340-00-721-8182


MS20426AD4 RIVET 2 REQD.
(FLUSH FAR SIDE)
COORDINATE WITH AN743-13
-17 BRACKET
0.25
(REF)
0.50
SECTION A-A
-0.12
0.38 TRUE
0.75 TRUE
1.25
(TRUE)
RAD.
DIA (REF)
A
A
0.045 MIN (REF)
0.063
0.062
15 CLAMP

NOTES:

1. PART NO. 204-070-048-15 CLAMP — MAY BE MADE FROM ALTERED MS21919DG32 NSN 5340-00-265-6797
2. PART NO. 204-070-048-17 BRACKET MAY BE MADE FROM ALTERED AN743-13 BRACKET NSN 5340-00-721-8182
3. RIVET THE ALTERED AN743-13 BRACKET TO CLAMP WITH MS20426AD4 RIVETS

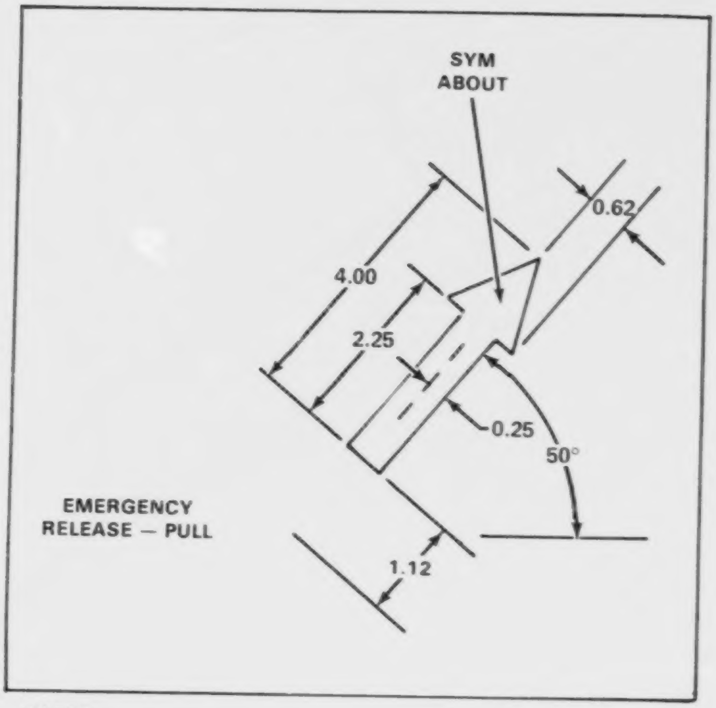
| Figure D-246. | Part Number | 204-070-048-13 CLAMP ASSEMBLY |
|---|---|---|
| | Fabricate from: | NSN 5340-00-265-6797<br>NSN 5340-00-721-8182 |



NOTES:

1. LETTERING TO BE SPACED APPROX. AS SHOWN

| **Figure D-247.** | Part Number | 204-070-806-3 STENCIL |
|---|---|---|
| | Fabricate from: | 9310-00-265-6769 |
| | Material: | Stencil, Board Federal Specification U-U-625 TYPE 2, GRADE 1 |


SYM
ABOUT
0.62
4.00
2.25
0.25
50°
EMERGENCY
RELEASE — PULL
1.12

NOTES:

1. LETTERS TO BE 1.0 INCH HIGH SPACES APPROX. AS SHOWN

**Figure D-248.** Part Number 204-070-812-1 STENCIL
Fabricate from: NSN 9310-00-265-6797
Material: Stencil Board Federal Standard UU-S-625 TYPE 2, Grade 1

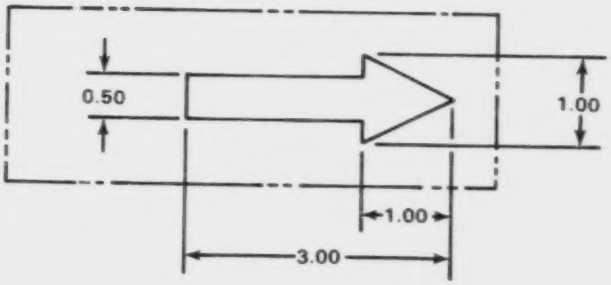

0.50
1.00
1.00
3.00

**Figure D-249.** Part Number 204-070-845-1 STENCIL
Fabricate from: NSN 9310-00-265-6797
Material: Stencil, Board, Federal Specifications UU-S-625, Type 2, Grade I

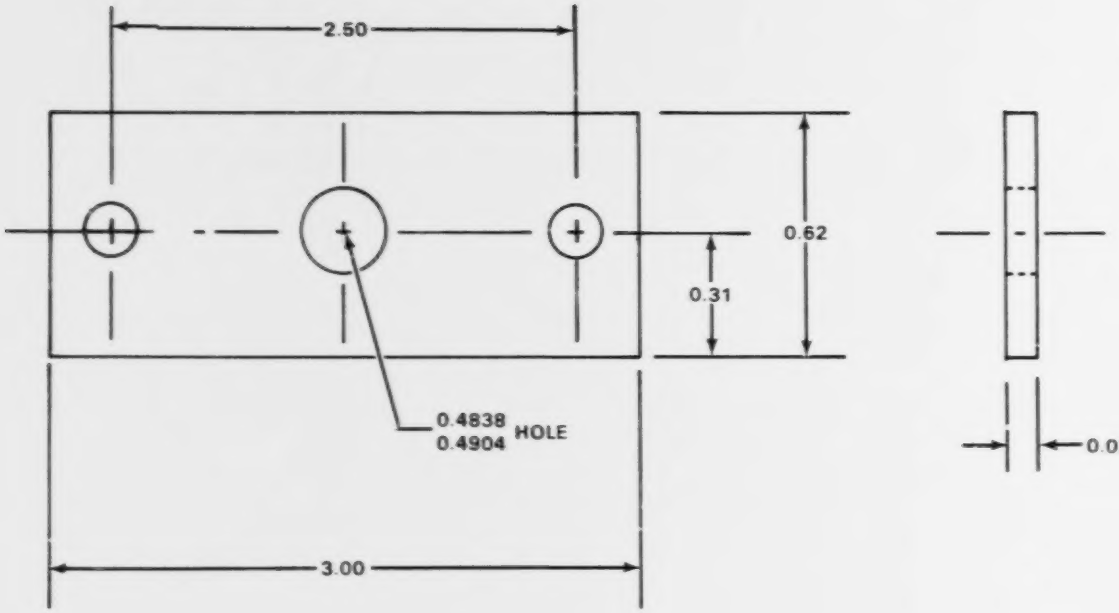
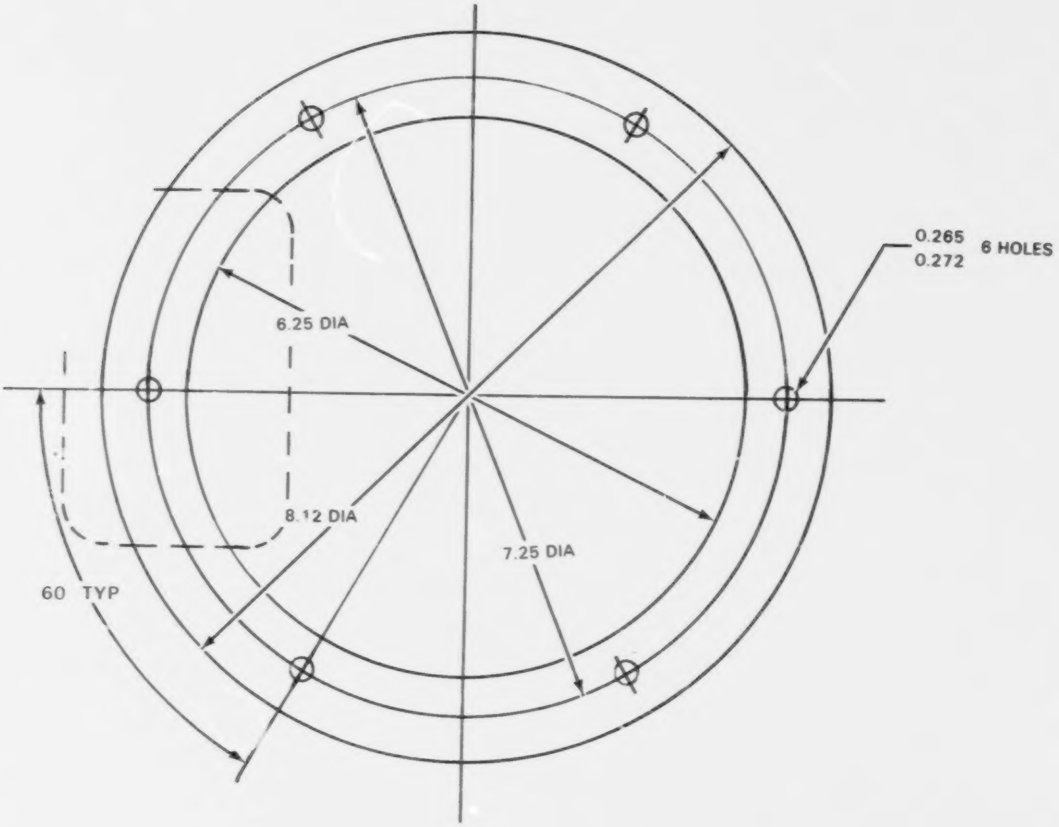

2.50
0.62
0.31
0.4838
0.4904 HOLE
0.032
3.00

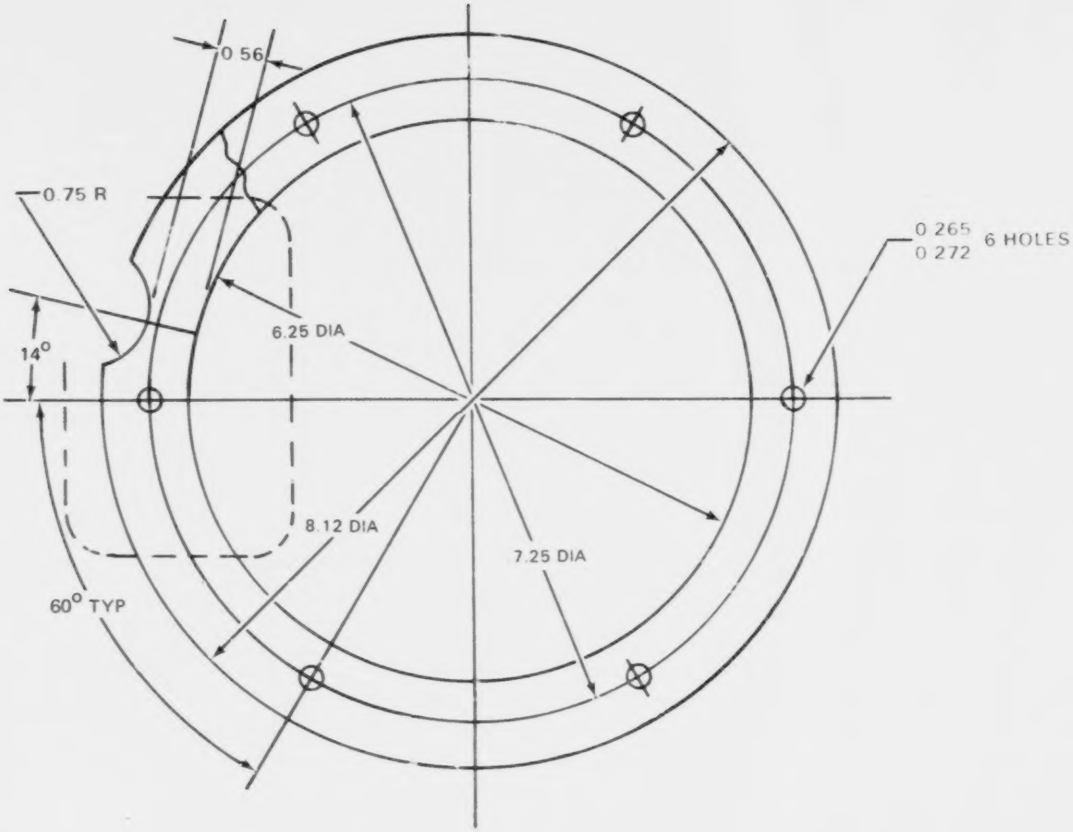
Figure D-250. Part Number 204-070-848-3 RETAINER
Fabricate from: NSN 9535-00-232-0565
Material: 2024 AL ALY SHEET Federal Specification QQ-A-250/5, 0.032 Inch Thick, 1.0 Inch Wide, 3.5 Inches Long


0.265
0.272
6 HOLES
6.25 DIA
8.12 DIA
7.25 DIA
60 TYP

NOTES
1. MARK PER PBS FW-B-4050
2. PURCHASE FROM JOHNS-MANVILLE PRODUCTS NEW YORK, N.Y.
CODE IDENT # 92798

| THICKNESS | SIZE | STYLE |
|---|---|---|
| 3/64 INCH | 9.0 × 9.0 | 89 |

Figure D-251. **Part Number** **204-072-258-1 GASKET**
**Fabricate from:** **NSN 5330-00-938-1719**
**Material:** **Asbestos**

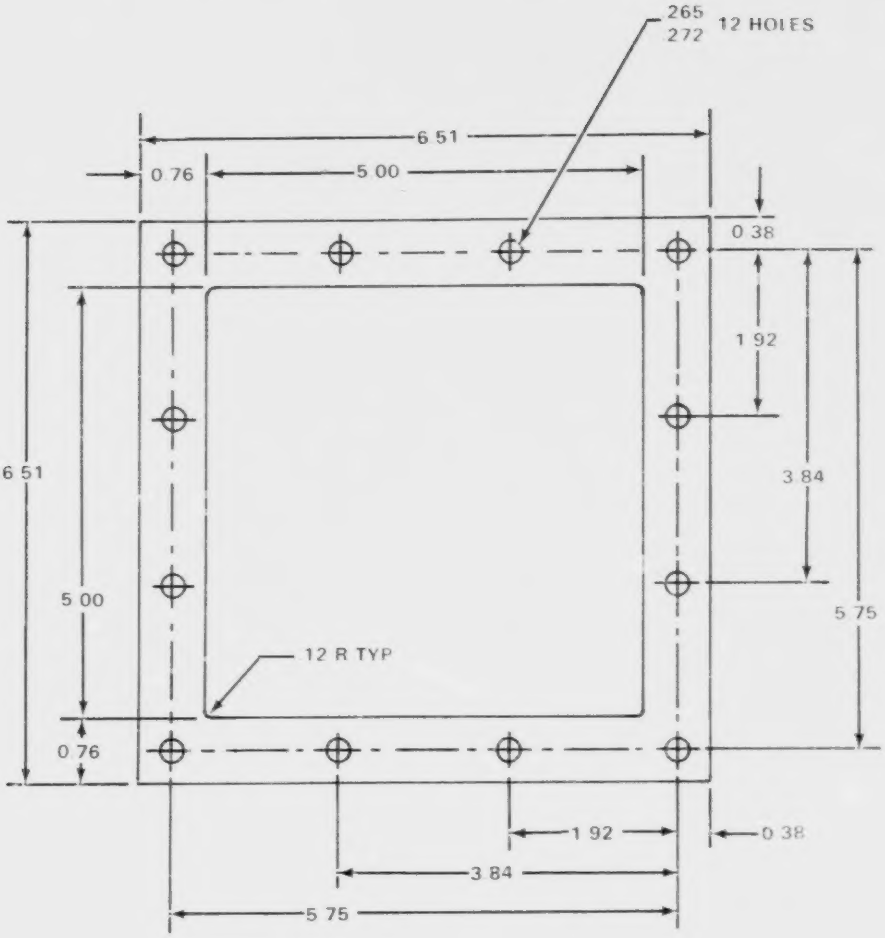

0.56
0.75 R
14°
6.25 DIA
8.12 DIA
7.25 DIA
60° TYP
0.265
0.272
6 HOLES

NOTES

1. MATERIAL MAY BE PURCHASED FROM JOHNS–MANVILLE PRODUCTS;
   NEW YORK, N. Y. CODE IDENT 92798
2. SPECIAL ASBESTOS MATERIAL NO

| THICKNESS | SIZE | STYLE |
|---|---|---|
| 3/64 INCH | 9.0 x 9.0 | 89 |

**Figure D-252.** **Part Number** **204-072-258-3 GASKET**
**Fabricate from:** **NSN 5330-00-938-1719**
**Material:** **See notes**


.265
.272 12 HOLES
6.51
0.76
5.00
0.38
1.92
3.84
5.75
6.51
5.00
.12 R TYP
0.76
1.92
0.38
3.84
5.75

NOTES:

1. PURCHASE FROM JOHNS-MANVILLE PRODUCTS NEW YORK, N.Y.
   CODE IDENT # 92798
2. SPECIAL ASBESTOS MATERIAL NO NSN AVAILABLE

| THICKNESS | SIZE | STYLE |
|---|---|---|
| 3/64 INCH | 70 × 70 | 89 |

Figure D-253. Part Number 204-072-259-1 GASKET
Fabricate from: NSN 5330-00-936-2420

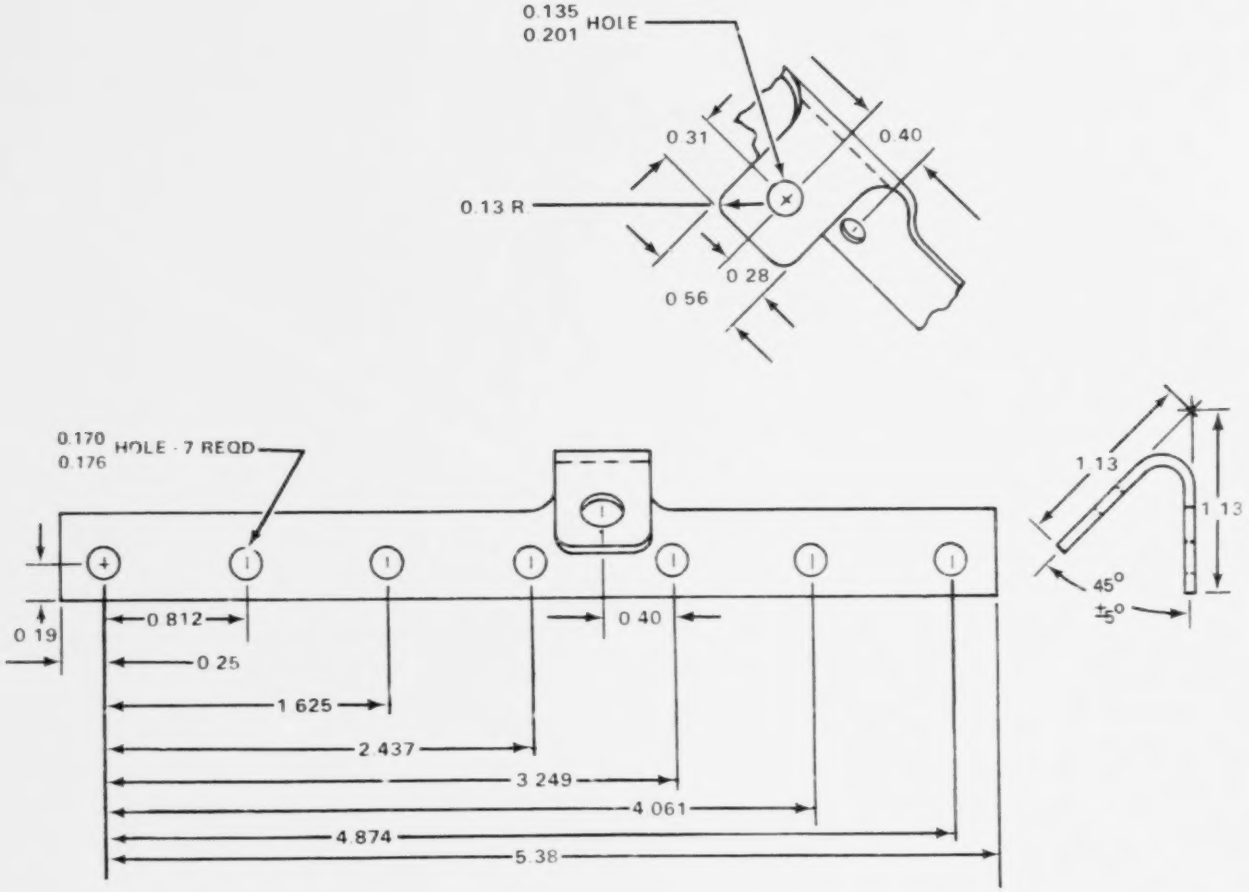

0.135
0.201 HOLE
0.31
0.40
0.13 R
0.28
0.56
0.170
0.176 HOLE - 7 REQD
0.19
0.812
0.25
1.625
2.437
3.249
4.061
4.874
5.38
0.40
1.13
1.13
45°
±5°

**Figure D-254.** **Part Number** **204-075-264-1 BUS BAR**
**Fabricate from:** **NSN 6150-00-225-0267**
**Material:** **Copper Sheet, Federal Specifications QQ-C-576, ANNEALED 0.063 Inch Thick, 2.0 Inches Wide, 5.8 Inches Long**

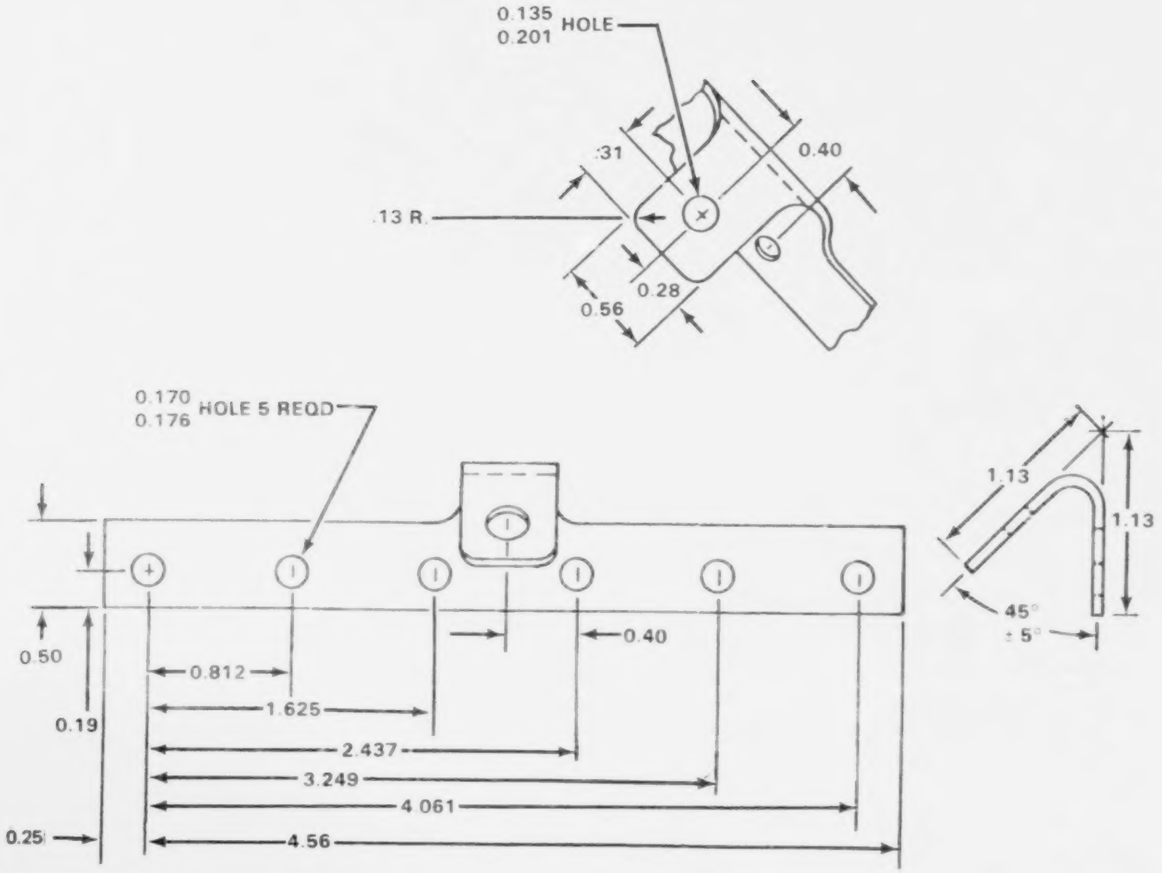

0.135
0.201 HOLE
.31
0.40
.13 R.
0.28
0.56
0.170
0.176 HOLE 5 REQD
1.13
1.13
45°
± 5°
0.40
0.50
0.812
1.625
0.19
2.437
3.249
4.061
0.25
4.56

Figure D-255. **Part Number** **204-075-264-3 BUS BAR**
**Fabricate from:** **NSN 6150-00-225-0267**
**Material:** **Copper Sheet, Federal Specifications QQ-C-576, ANNEALED 0.063 Inch Thick, 2.0 Inches Wide, 5.0 Inches Long**

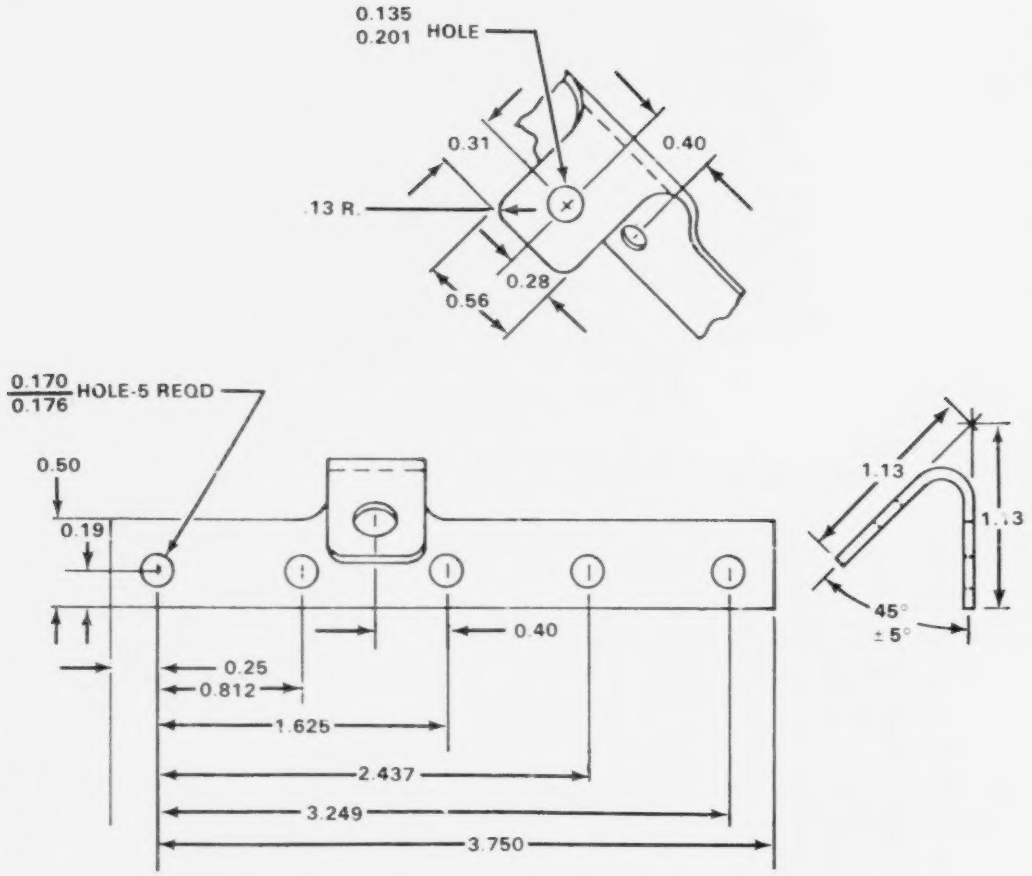

0.135
0.201 HOLE
0.31
0.40
.13 R.
0.28
0.56
0.170
0.176 HOLE-5 REQD
0.50
0.19
0.40
0.25
0.812
1.625
2.437
3.249
3.750
1.13
1.13
45°
± 5°

Figure D-256. **Part Number:** **204-075-264-5 BUS BAR**
**Fabricate from:** **NSN 6150-00-225-0267**
**Material:** **Copper Sheet, Federal Specification QQ-C-576, Annealed, 0.063 Inch Thick, 2.0 Inches Wide, 4.3 Inches Long**

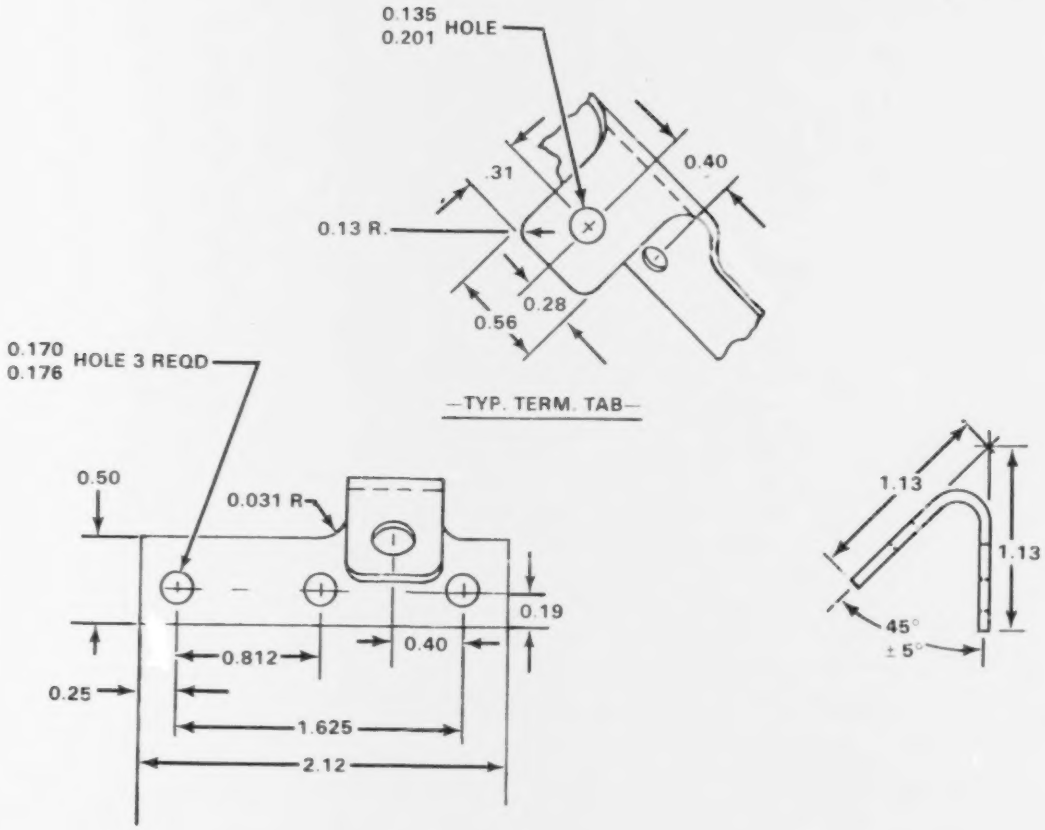
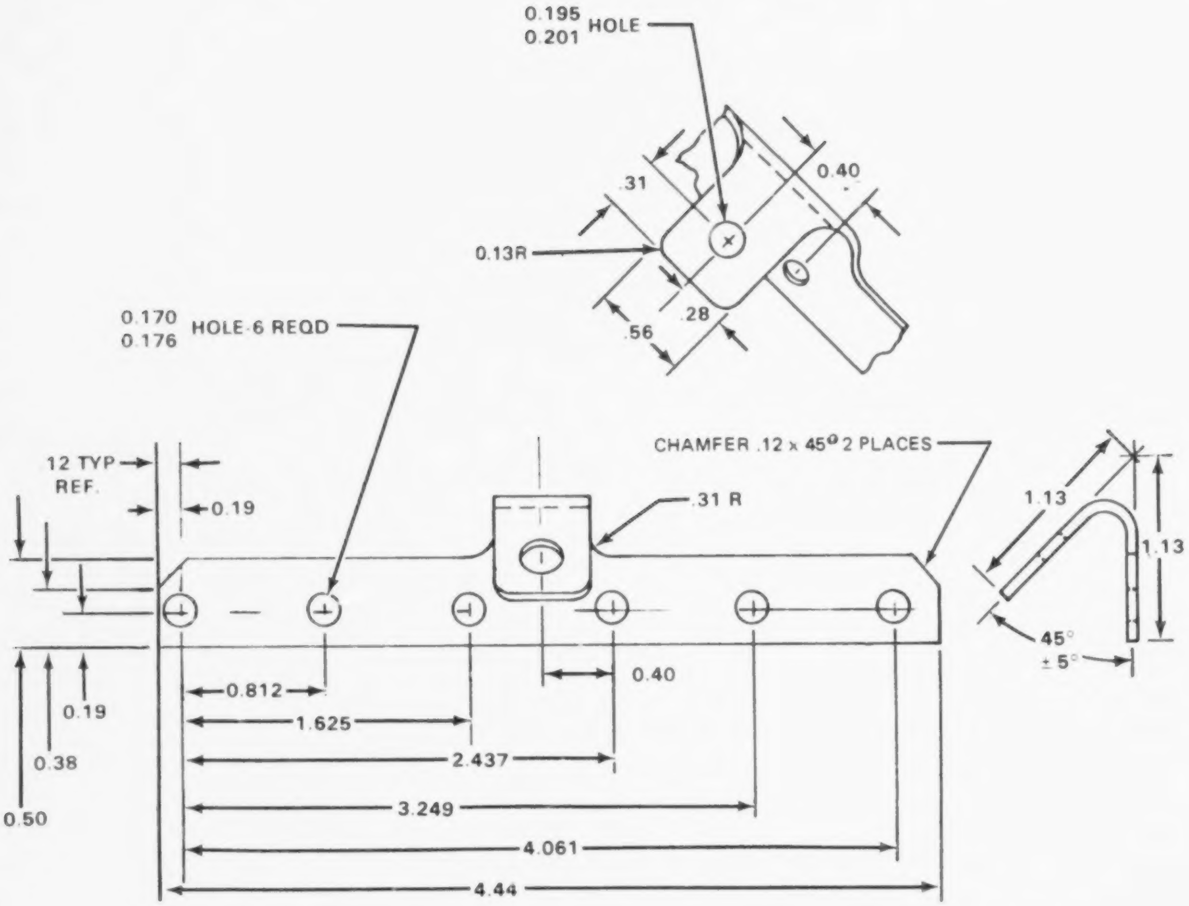

0.135
0.201 HOLE
.31
0.40
0.13 R.
0.28
0.56
—TYP. TERM. TAB—
0.170
0.176 HOLE 3 REQD
0.50
0.031 R
0.19
0.812
0.40
0.25
1.625
2.12
1.13
1.13
45°
± 5°

**Figure D-257.** Part Number: 204-075-264-9 BUS BAR

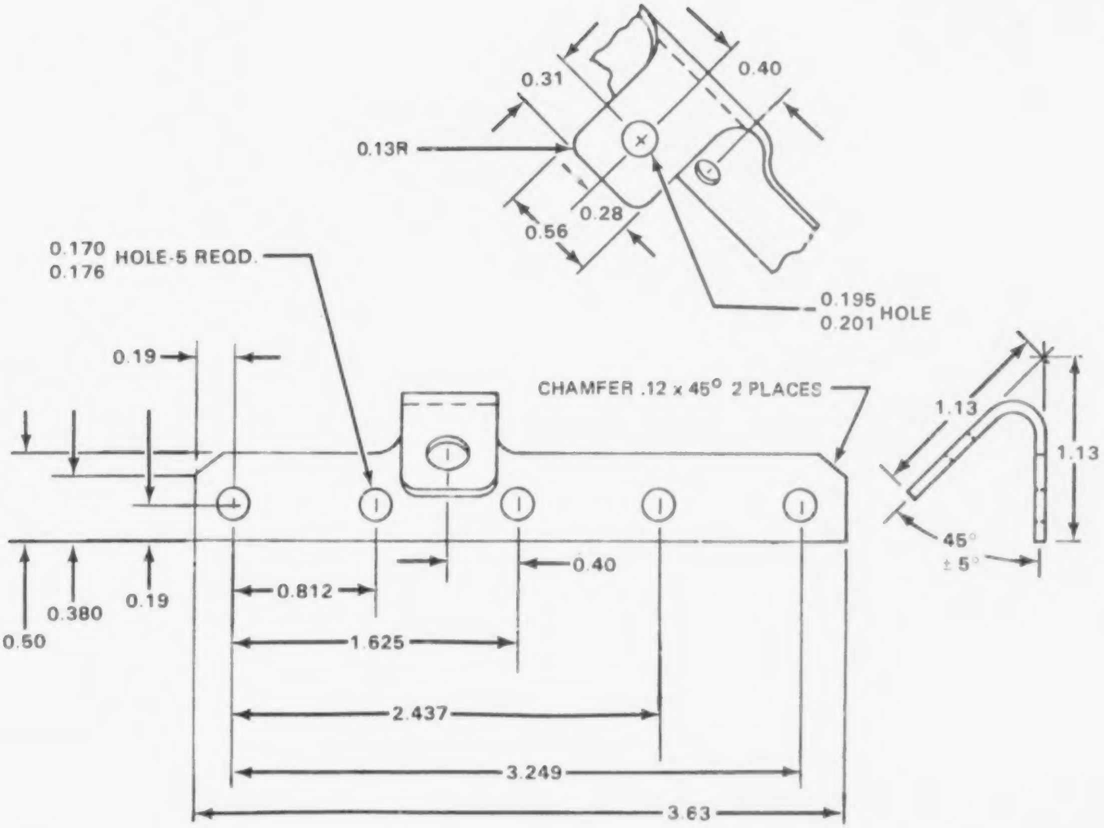
Fabricate from: NSN 6150-00-225-0267

Material: Copper Sheet, Federal Specification QQ-C-567, Annealed, 0.063 Inch Thick, 2.0 Inches Wide, 2.6 Inches Long

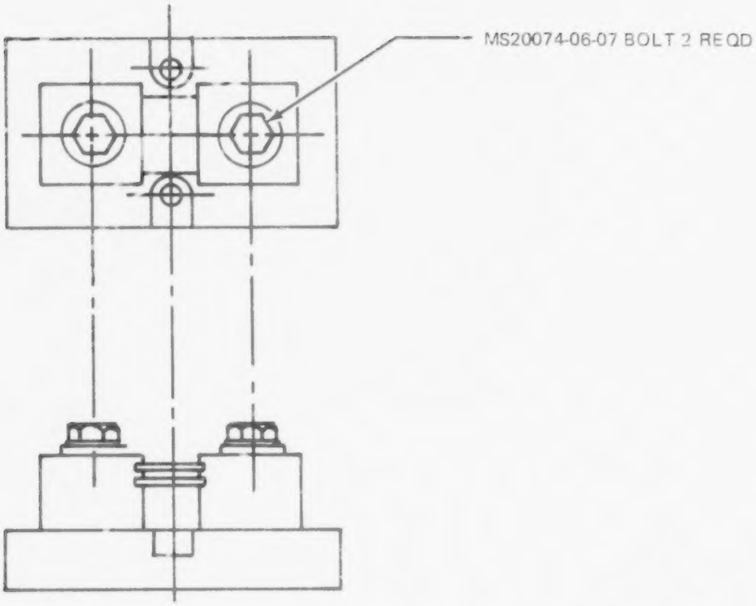


0.195
0.201
HOLE
.31
0.40
0.13R
.28
.56
0.170
0.176
HOLE-6 REQD
CHAMFER .12 x 45° 2 PLACES
12 TYP
REF.
0.19
.31 R
1.13
1.13
45°
± 5°
0.40
0.812
1.625
2.437
3.249
4.061
4.44
0.19
0.38
0.50

| Figure D-258. | Part Number | 204-075-230-3 BUS BAR |
|---|---|---|
| | Fabricate from: | NSN 6150-00-225-0267 |
| | Material: | Copper Sheet, Federal Specification QQ-C-576, Annealed, 0.063 Inch Thick, 2.7 Inch Wide, 5.0 Inch Long |


0.31
0.40
0.13R
0.28
0.56
0.195
0.201 HOLE
0.170
0.176 HOLE-5 REQD.
0.19
CHAMFER .12 x 45° 2 PLACES
1.13
1.13
45°
± 5°
0.40
0.812
0.380
0.19
0.50
1.625
2.437
3.249
3.63

| | | |
|---|---|---|
| Figure D-259. | **Part Number** | **204-075-230-5 BUS BAR** |
| | **Fabricate from:** | **NSN 6150-00-225-0267** |
| | **Material:** | **Copper Sheet, Federal Specification QQ-C-576, Annealed, 0.063 Inch Thick, 2.7 Inches Wide, 4.1 Inches Long** |



NOTE:

MAKE FROM MS91587-4 SHUNT

Figure D-260. **Part Number** **204-075-152-3 SHUNT Assembly**
**Fabricate from:** **NSN 6625-00-166-1005, MS91587-4 SHUNT**
**Material:** **MS91587-4 SHUNT, By Installing Above Bolts in Place of Furnished Bolts**

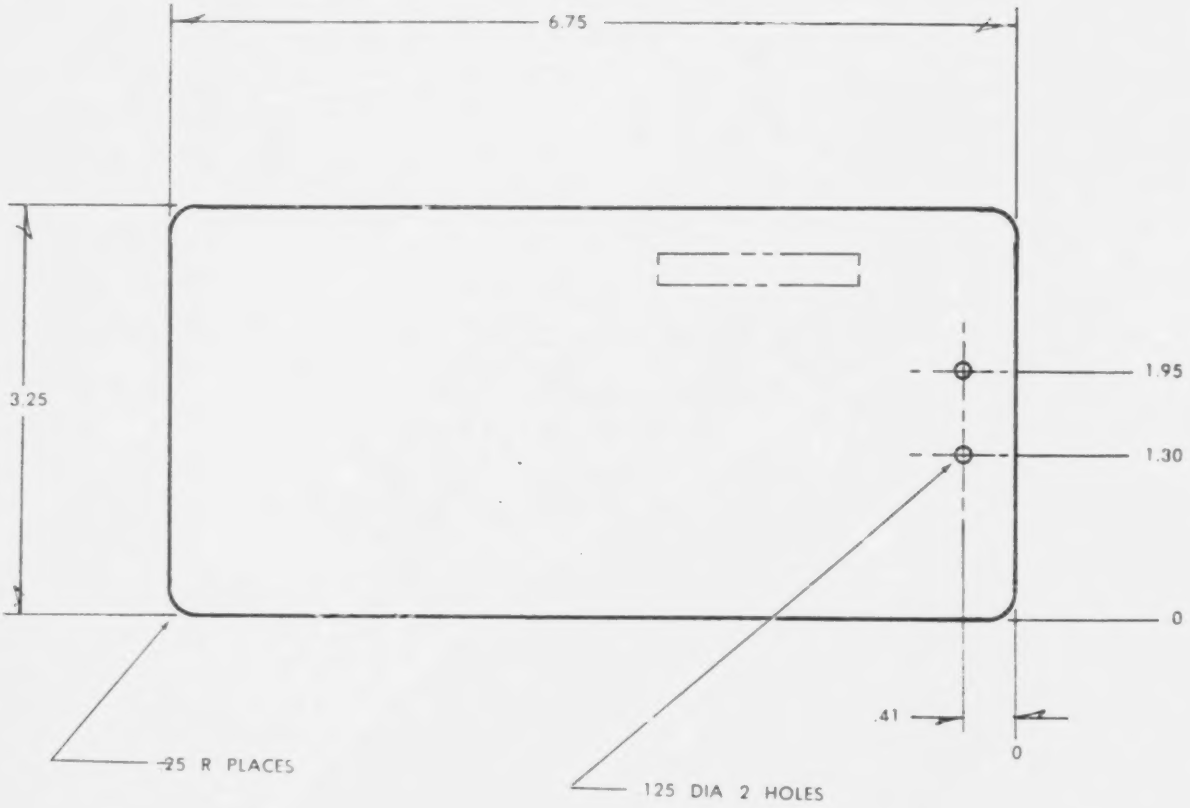

6.75
3.25
1.95
1.30
0
.41
0
.25 R PLACES
.125 DIA 2 HOLES

Figure D-261. Plate, Doubler, Rear PN 5065697
Fabricate from: NSN 9535-00-232-1882
Material: AL Alloy, 6061-T6, .062 THK, QQ-Q-250/11

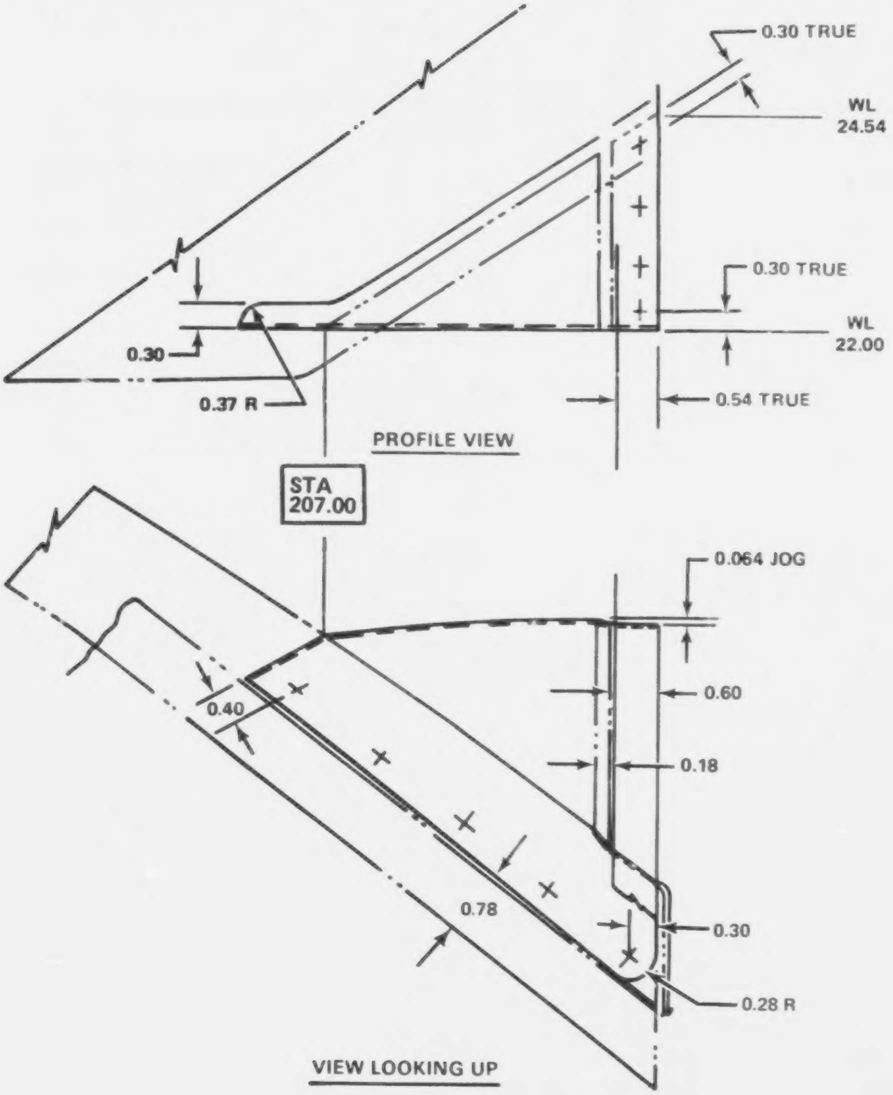
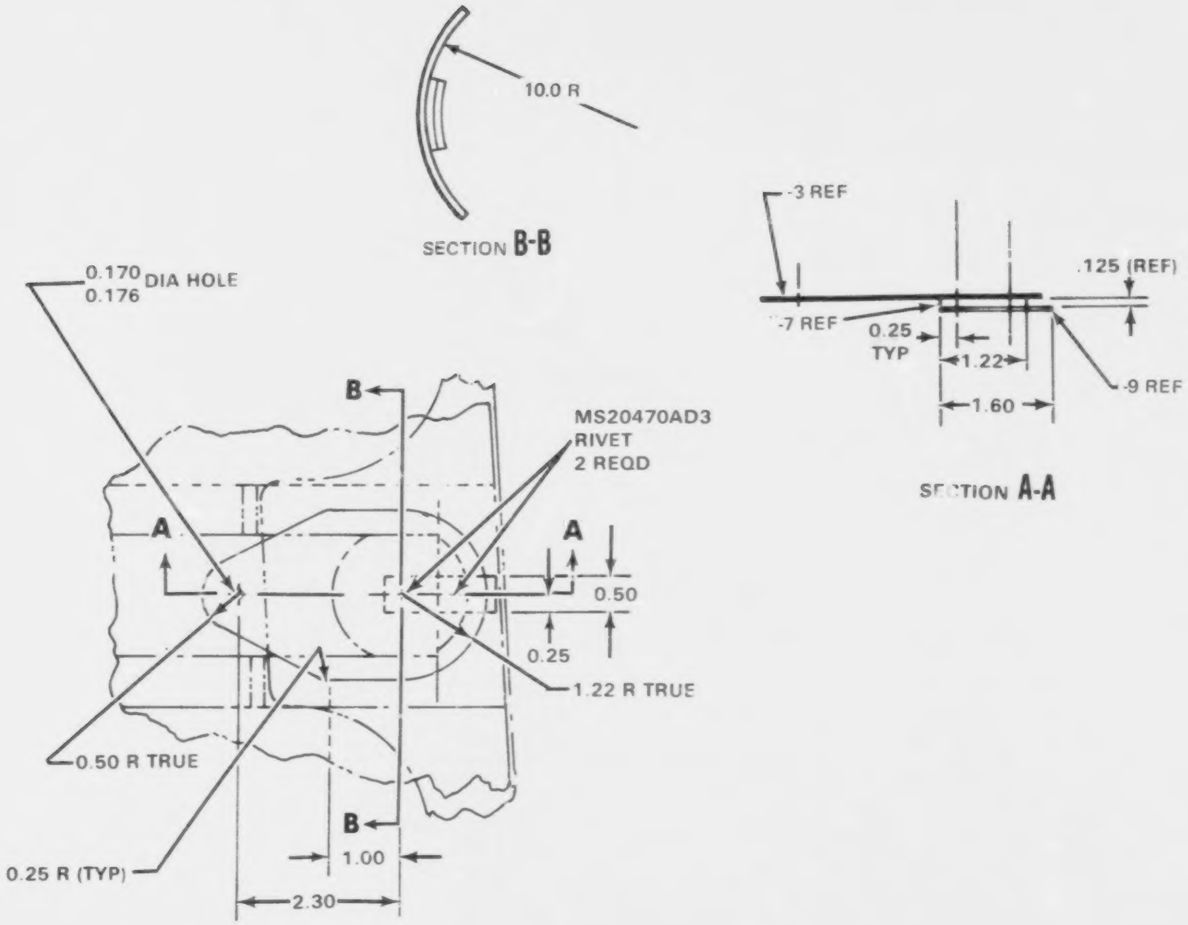

0.30 TRUE
WL
24.54
0.30 TRUE
WL
22.00
0.30
0.37 R
0.54 TRUE
PROFILE VIEW
STA
207.00
0.064 JOG
0.60
0.40
0.18
0.78
0.30
0.28 R
VIEW LOOKING UP

**Figure D-262.** **Part Number** 205-030-137-4 GUSSET
**Fabricate from:** NSN 9535-00-232-0489
**Material:** 2024 AL ALY Federal Specification QQ-A-362, Temp 0 T42, to 0.032 Inch Thick, 5.5 Inches Wide, 6.0 Inches Long


10.0 R
SECTION B-B
-3 REF
.125 (REF)
-7 REF
0.25 TYP
1.22
-9 REF
1.60
SECTION A-A
0.170 / 0.176 DIA HOLE
B
B
MS20470AD3 RIVET 2 REQD
A
A
0.50
0.25
1.22 R TRUE
0.50 R TRUE
0.25 R (TYP)
1.00
2.30

NOTES:

1. 205-030-148-5 COVER MAKE FROM .2024 AL ALY FEDERAL SPECIFICATION QQ-A-250/5 T3 0.040 INCH THICK, 5.0 INCHES LONG, 5.0 INCHES WIDE
2. 205-030-148-7 SPACER MAKE FROM 2024 AL ALY FEDERAL SPECIFICATION QQ-A-250/5 T3 0.125 INCH THICK, 1.0 INCH WIDE, 1.72 INCHES LONG
3. 205-030-148-9 PLATE MAKE FROM 2024 AL ALY FEDERAL SPECIFICATION QQ-A-250/5 T3 0.040 INCH THICK, 1.0 INCH WIDE, 2.1 INCH LONG

Figure D-263. Part Number 205-030-148-3 COVER Assy of
Fabricate from: NSN 9535-00-167-2280
NSN 9535-00-232-0418
Material: 2024 AL ALY Federal Specification QQ-A-250/5 T3 0.040 Inch Thick
2024 AL ALY Federal Specification QQ-A-250/5 T3 0.125 Inch Thick

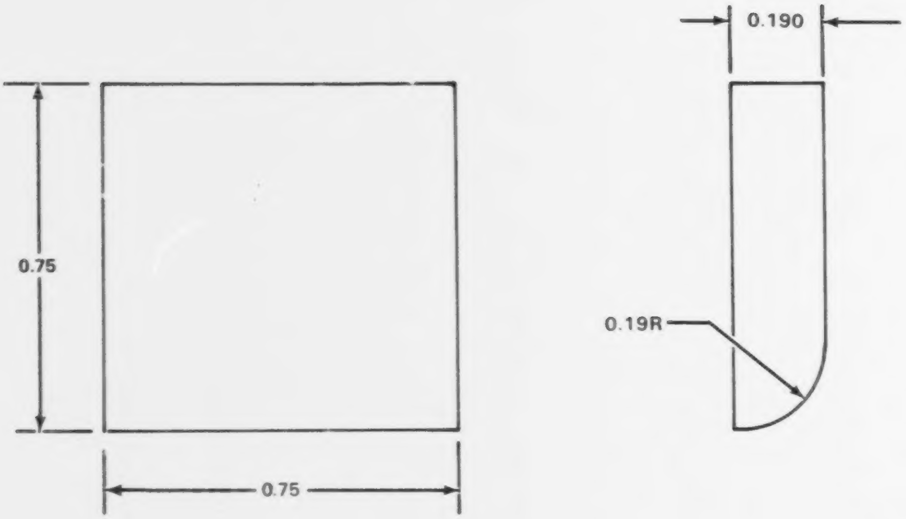


Figure D-264. Part Number 205-030-164-215 RADIAL BLOCK
Fabricate from: **NSN 9535-00-086-4516**
Material: 7075 AL ALY Federal Specification QQ-A-250/3 T6 0.190 Inch Thick, 0.8 Inch Wide, 0.8 Inch Long

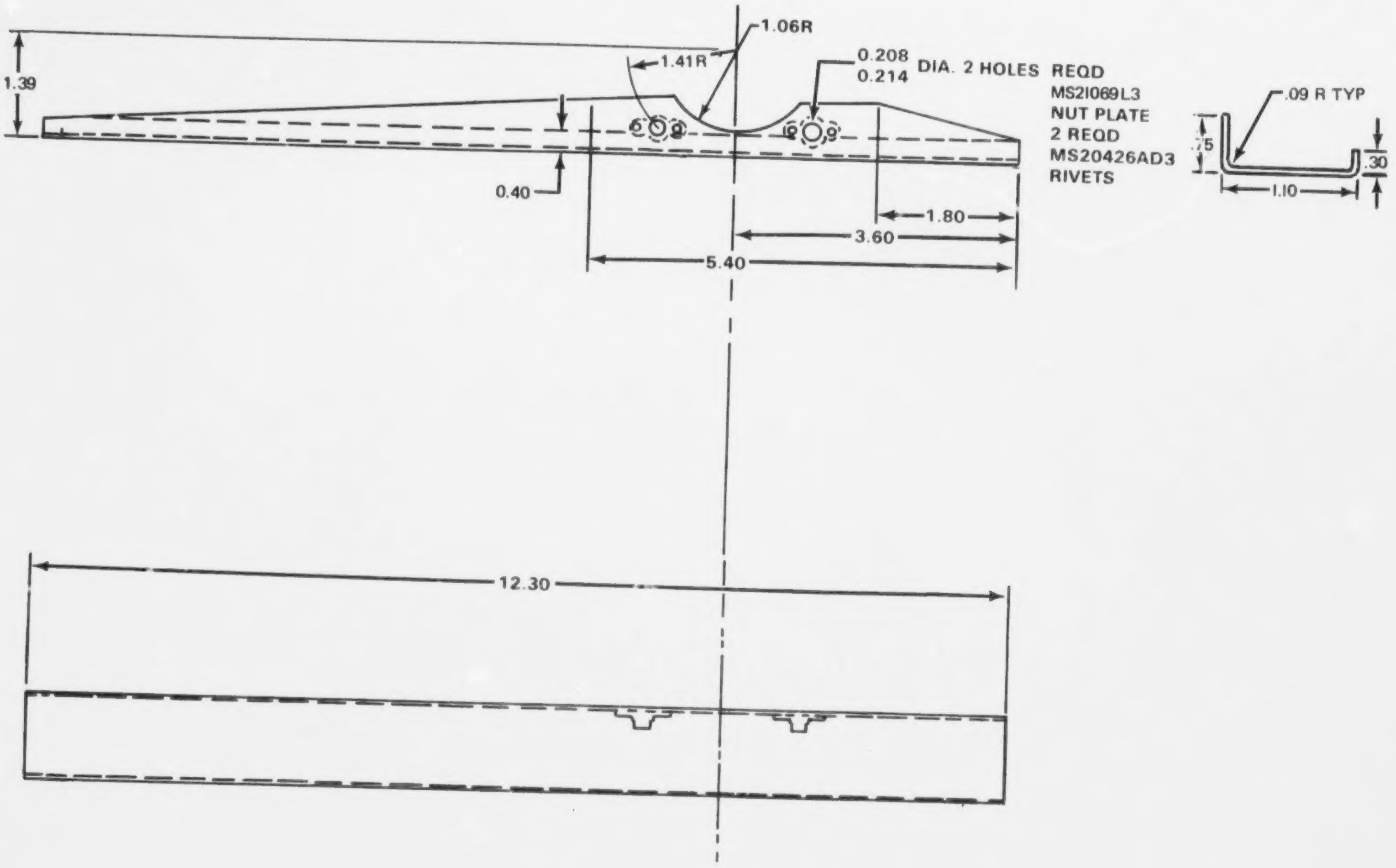

1.06R
1.41R
0.208
0.214
DIA. 2 HOLES REQD
MS21069L3
NUT PLATE
2 REQD
MS20426AD3
RIVETS
.09 R TYP
.75
.30
1.10
1.39
0.40
1.80
3.60
5.40
12.30

Figure D-265. Part Number 205-030-239-3 BEAM
Fabricate from: NSN 9535-00-232-0546
Material: 2024 AL ALY Federal Specification QQ-A-362, T3, 0.020 Inch Thick, 3.6 Inch Wide, 12.8 Inch Long

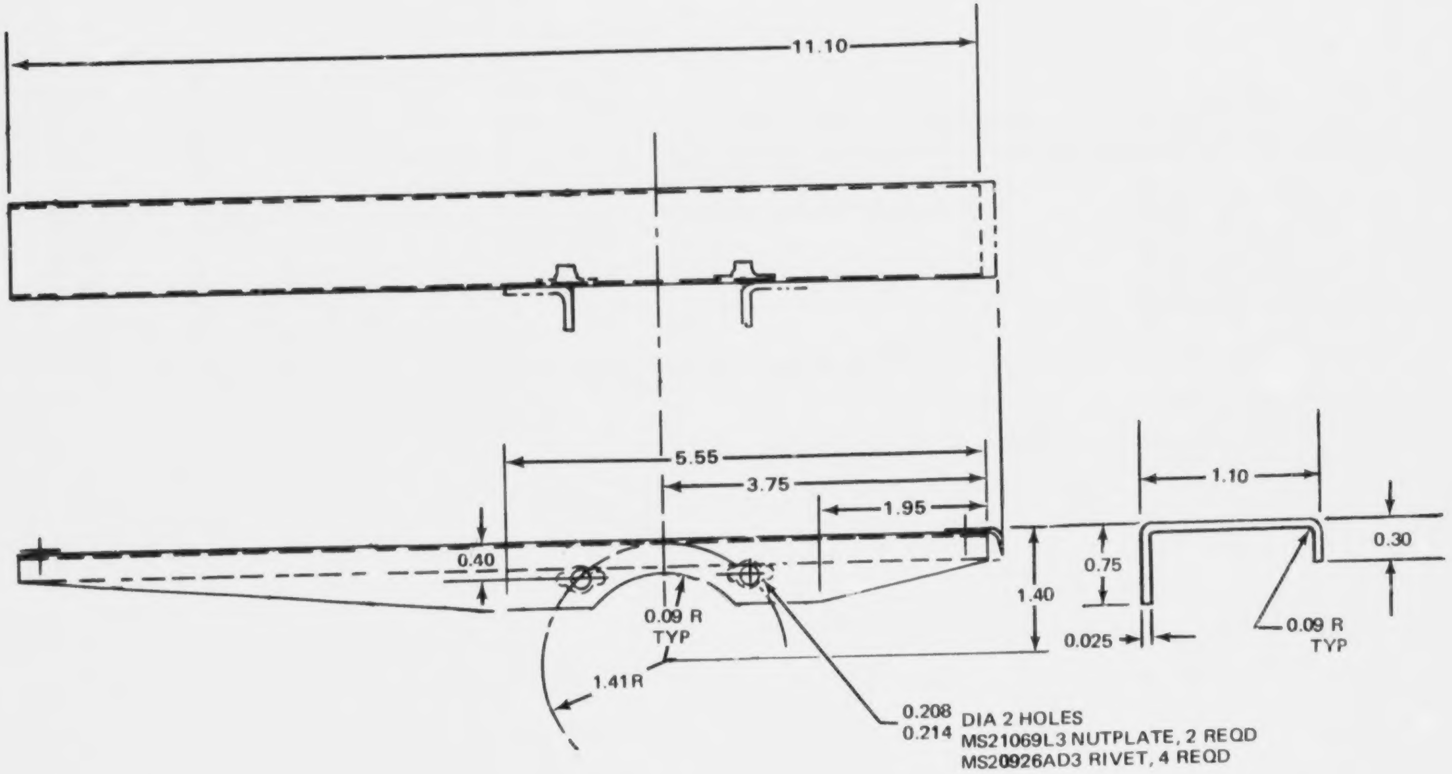

11.10
5.55
3.75
1.95
0.40
0.09 R
TYP
1.41R
1.40
0.75
0.025
1.10
0.30
0.09 R
TYP
0.208
0.214
DIA 2 HOLES
MS21069L3 NUTPLATE, 2 REQD
MS20926AD3 RIVET, 4 REQD

Figure D-266. **Part Number** 205-030-239-5 BEAM
**Fabricate from:** NSN 9535-00-232-0546
**Material:** 2024 AL ALY, Federal Specification QQ-A-250/5, T-3
0.020 Inch Thick, 3.6 Inch Wide, 11.06 Inch Long

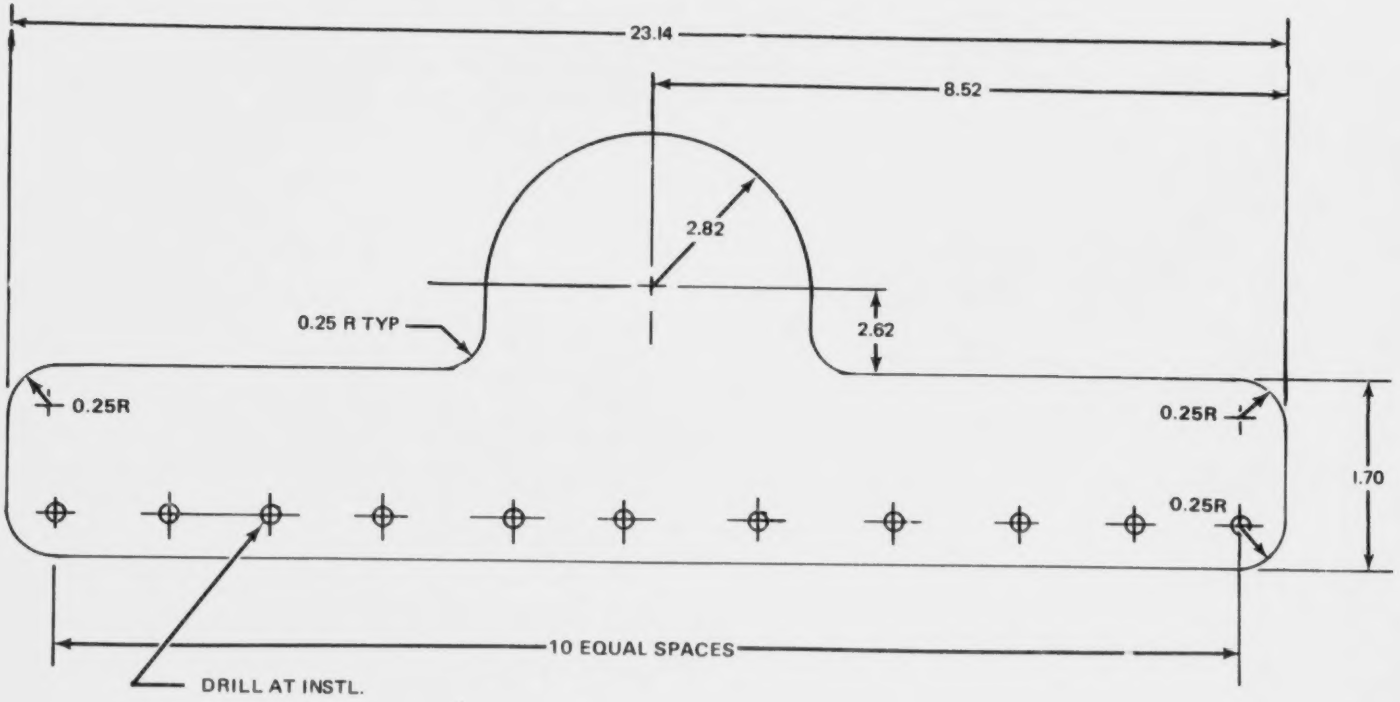
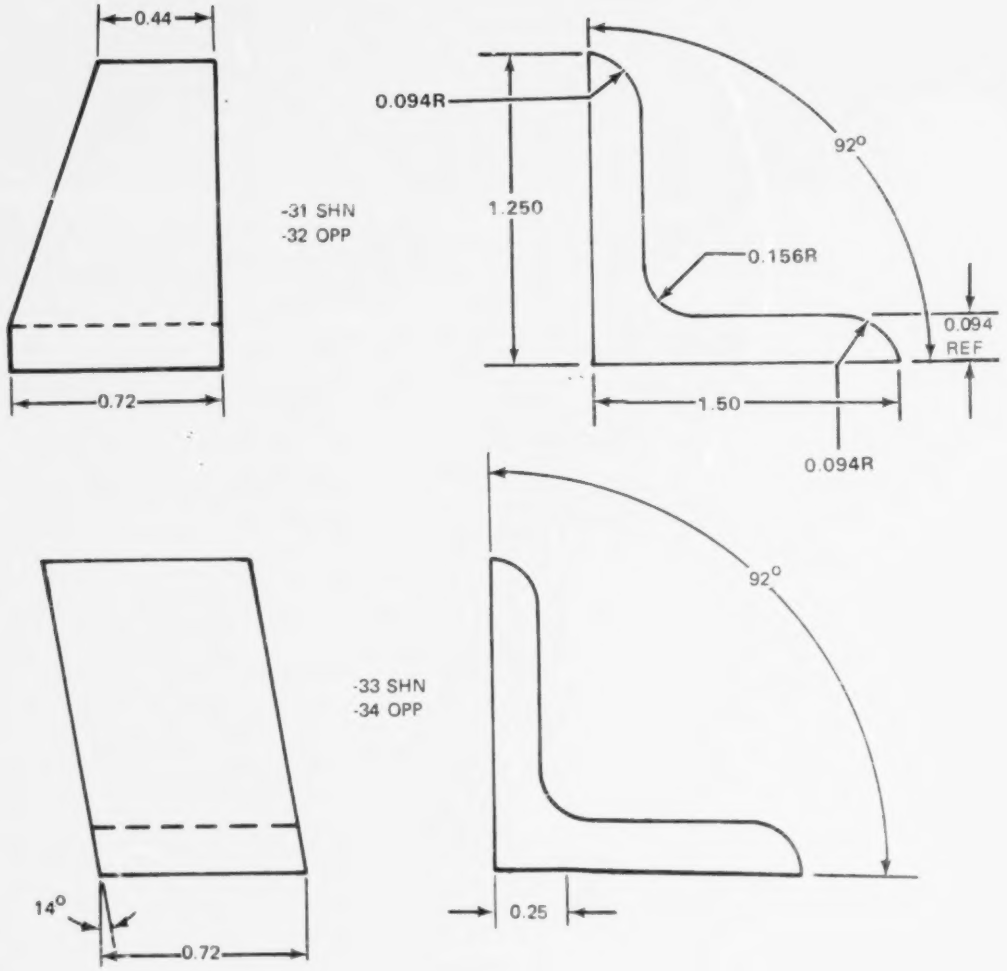

23.14
8.52
2.82
2.62
0.25 R TYP
0.25R
0.25R
0.25R
0.25R
1.70
10 EQUAL SPACES
DRILL AT INSTL.

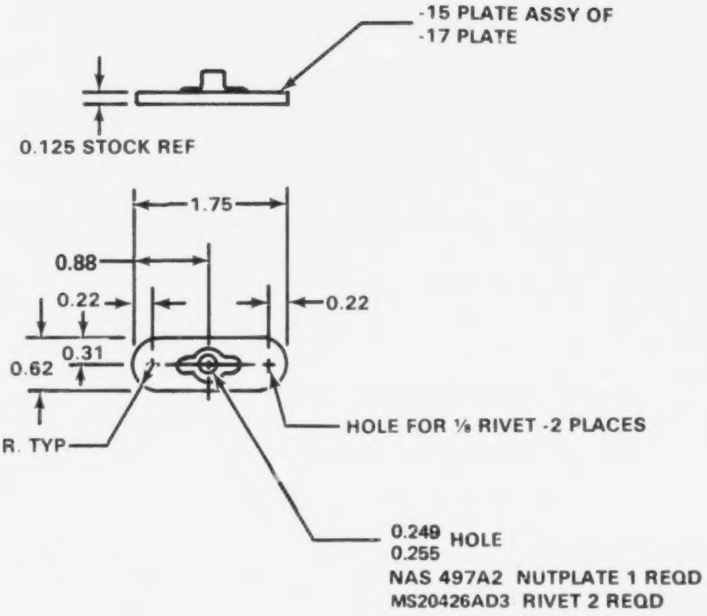
Figure D-267. Part Number 205-030-257-15 DOUBLER
Fabricate from: NSN 9535-00-086-9860
Material: 7075 AL ALY Sheet Federal Specification QQ-A-250/13 T-6
0.032 Inch Thick, 5.8 Inch Wide, 23.3 Inch Long


0.44
0.72
-31 SHN
-32 OPP
0.094R
1.250
92°
0.156R
0.094
REF
1.50
0.094R
-33 SHN
-34 OPP
92°
14°
0.72
0.25

NOTES:

1. 205-031-423-31 & -32 CLIP
   MAKE FROM AND10134-1406 STRUCTURAL
   ANGLE ALUMINUM EXTRUSION 1.1 INCHES LONG
2. 205-031-423-33 & -34 CLIP
   MAKE FROM AND10134-1406 STRUCTURAL
   ANGLE ALUMINUM EXTRUSION 1.5 INCHES LONG
3. DRILL HOLES TO MATCH TO INSTALL

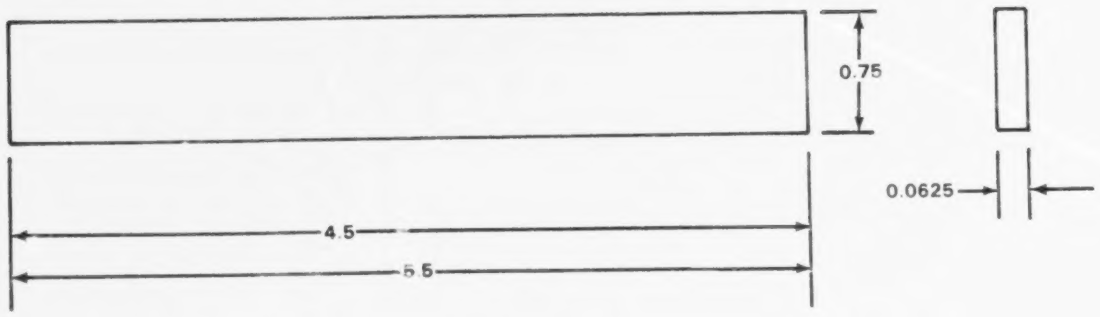
Figure D-268. Part Number 205-031-423-31 CLIP
205-031-423-32 CLIP
205-031-423-33 CLIP
205-031-423-34 CLIP
Fabricate from: NSN 9540-00-596-3006
Material: 7075 Structural Angle Alum ALY
Extruded 90 Deg. Federal Specification
QQ-A-200-11 T6, 1.250 Inch H of 1 Leg.
1.50 Inch H of Other Leg, 0.094 Inch Thick


-15 PLATE ASSY OF
-17 PLATE
0.125 STOCK REF
1.75
0.88
0.22
0.22
0.31
0.62
R. TYP
HOLE FOR ⅛ RIVET -2 PLACES
0.249
0.255 HOLE
NAS 497A2 NUTPLATE 1 REQD
MS20426AD3 RIVET 2 REQD

NOTES:

1. 205-031-481-17 PLATE MAKE FROM METAL STRIP STEEL 0.125 INCH THICK
2. RIVET NUTPLATE TO 205-031-481-17 PLATE

Figure D-269. **205-031-481-15 PLATE, Assy of**
**NSN 9515-00-204-0220**
**Metal Strip, Steel Annealed**
**Federal Specification MIL-S-18729 Comp 4130, Cond N**
**0.125 Inch Thick, 1.2 Inch Wide, 2.3 Inch Long**



NOTES:

1. 205-031-481-23 BUMPER MAKE FROM 0.0625 INCH THICK SYNTHETIC RUBBER 5.5 INCHES LONG
2. 205-031-481-29 BUMPER MAKE FROM 0.0625 INCH THICK SYNTHETIC RUBBER 4.5 INCHES LONG

| | | |
|---|---|---|
| Figure D-270. | Part Number | 205-031-481-23 BUMPER<br>205-031-481-29 BUMPER |
| | Fabricate from: | NSN 9320-00-202-1846 |
| | Material: | Rubber Sheet Synthetic<br>Federal Specification MIL-R-8855, Class 3, Grade 60, 0.0625 Inch Thick, 0.75 Inch Wide |

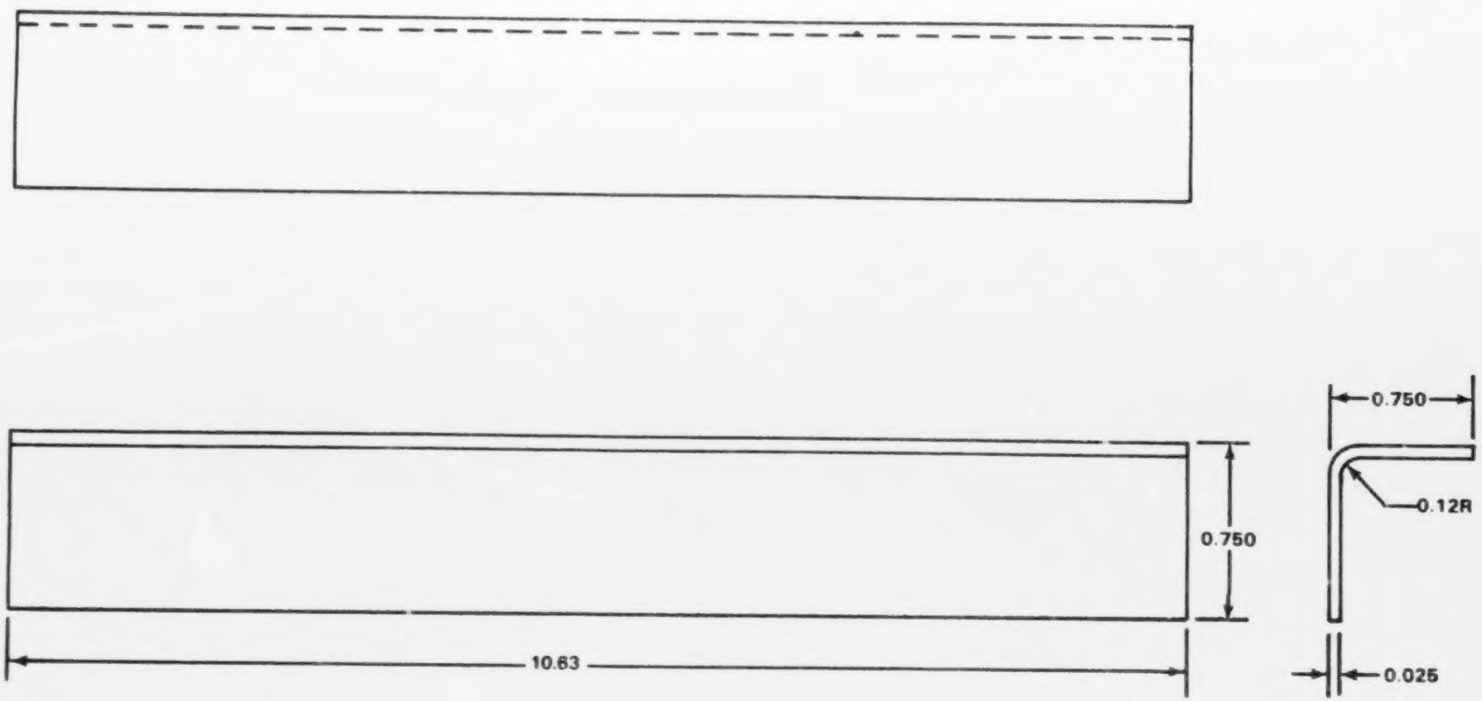
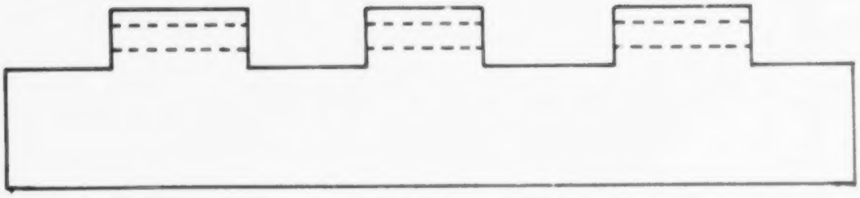
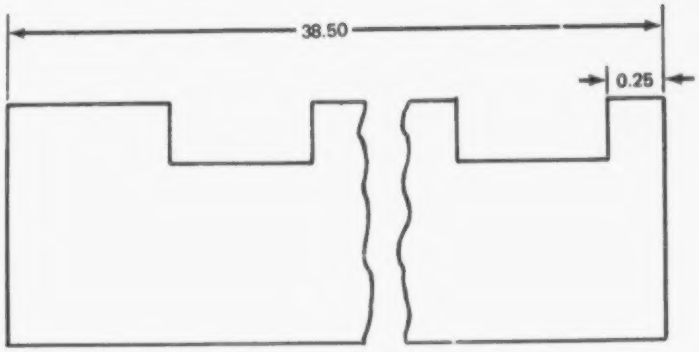

0.750
0.12R
0.750
0.025
10.63

Figure D-271. Part Number 205-031-668-65 ANGLE
Fabricate from: 9535-00-167-2278
Material: 2024 AL ALY, Federal Specification QQ-A-250/5 T3
0.032 Inch Thick, 1.9 Inch Wide, 11.2 Inch Long



NOTES:
1. 205-031-862-17S HINGE HALF
   MAKE FROM MS20257HP2-7200 LEAF
   BUTT HINGE MATERIAL
2. 205-031-862-21S HINGE HALF
   MAKE FROM MS20257HP2-7200 LEAF
   BUTT HINGE MATERIAL
3. CUT HINGE MATERIAL TO PROPER
   LENGTH
4. DESIGNATION IS SYNTHETIC PART NO.

**Figure D-272.** Part Number 205-031-862-17S HINGE HALF
205-031-862-21S
Fabricate from: NSN 5340-00-993-1461
Material: Leaf Butt Hinge AL ALY Anodized,
0.040 Inch Thick, 0.531 Inch Wide, 72.00 Inches Long

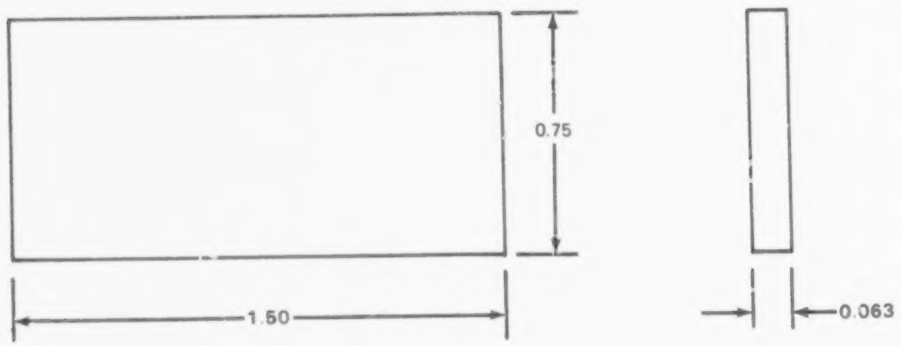


NOTES:

1. 205-031-862-19 HINGE HALF
   MAKE FROM MS20257YP2-3850
   BUTT HINGE MATERIAL
2. CUT HINGE MATERIAL TO PROPER
   LENGTH 38.50 INCH LONG

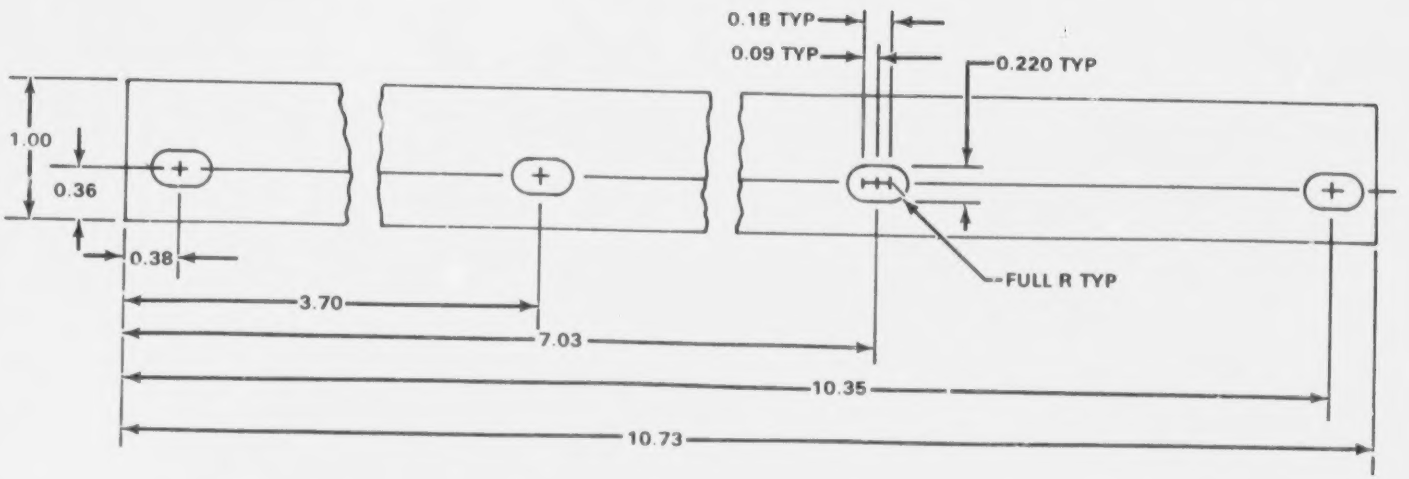
**Figure D-273.**

| | |
|---|---|
| Part Number | 205-031-862-19 HINGE HALF |
| Fabricate from: | NSN 5340-00-993-1461 |
| Material: | Hinge, Butt, Alum Aly Anodized<br>0.040 Inch Thick, 0.531 Inch Wide |



NOTES:
1. 205-031-862-47S STRIP MAKE FROM NYLATRON GS SHEET MATERIAL
2. PART SHALL BE FREE OF ALL SHARP EDGES AND SHARP CORNERS
3. PURCHASE MATERIAL FROM POLY MAR CORP, READING, PA. CODE IDENT NO. 83616

| Figure D-274. | Part Number<br>Fabricate from:<br>Material: | 205-031-862-47S STRIP<br>No national stock number<br>Plastic sheet, 0.063 Inch Thick, 1.25 Inch Wide, 2.0 Inches Long |
|---|---|---|


0.18 TYP
0.09 TYP
0.220 TYP
1.00
0.36
0.38
FULL R TYP
3.70
7.03
10.35
10.73

NOTES:

205-060-110-1 FILLER MAKE FROM LAMINATED SHIM AMS 4013

Figure D-275.

| | |
|---|---|
| Part Number | 205-060-110-1 FILLER, Laminated |
| Fabricate From: | NSN 9535-00-702-7786 |
| Material : | Shim Stock, Laminated Aluminum Federal Specification AMS 4013, 0.125 Inch Thick, 1.5 Inch Wide, 11.2 Inch Long |

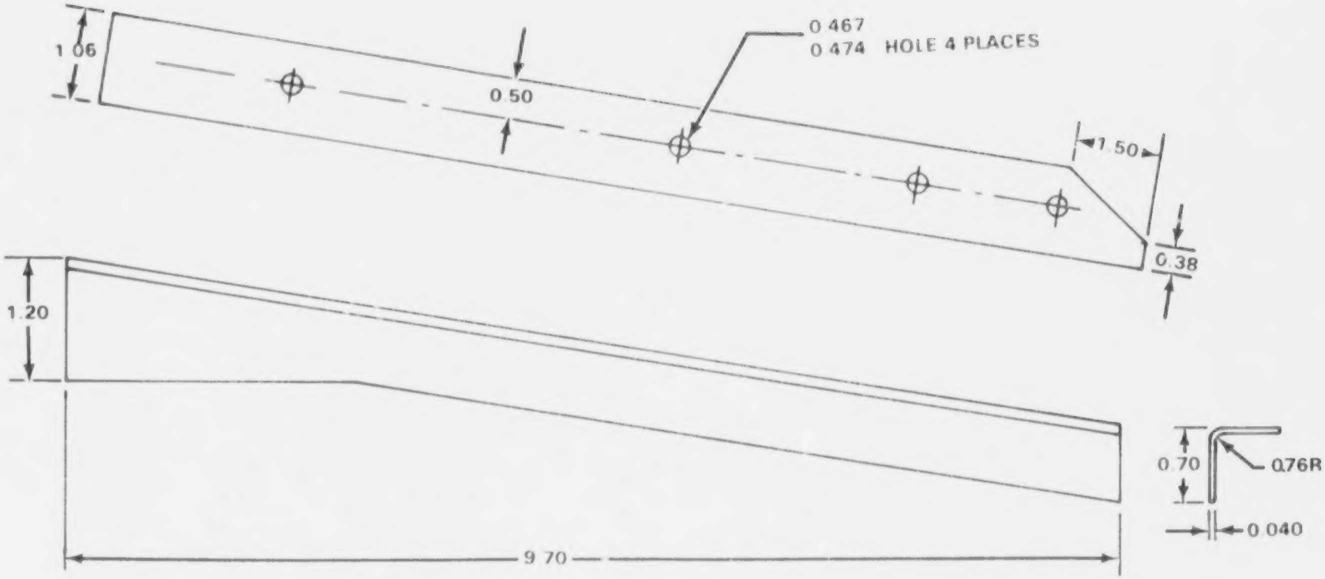
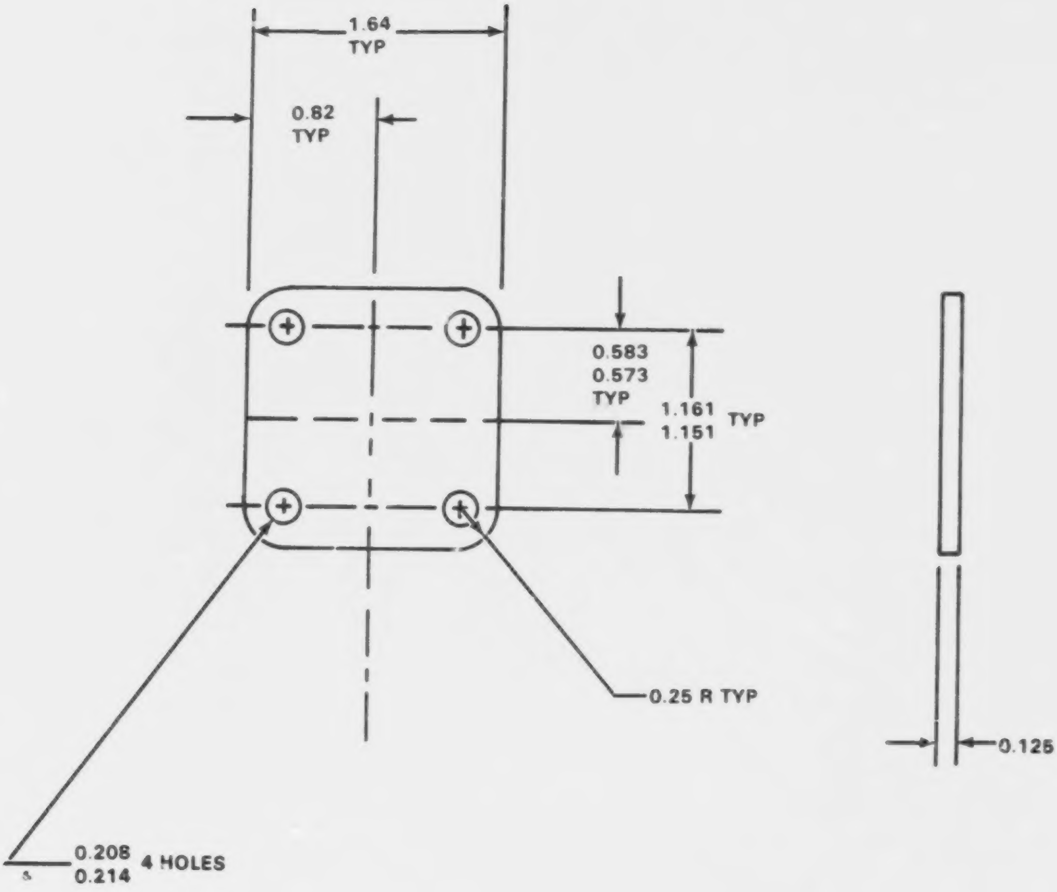
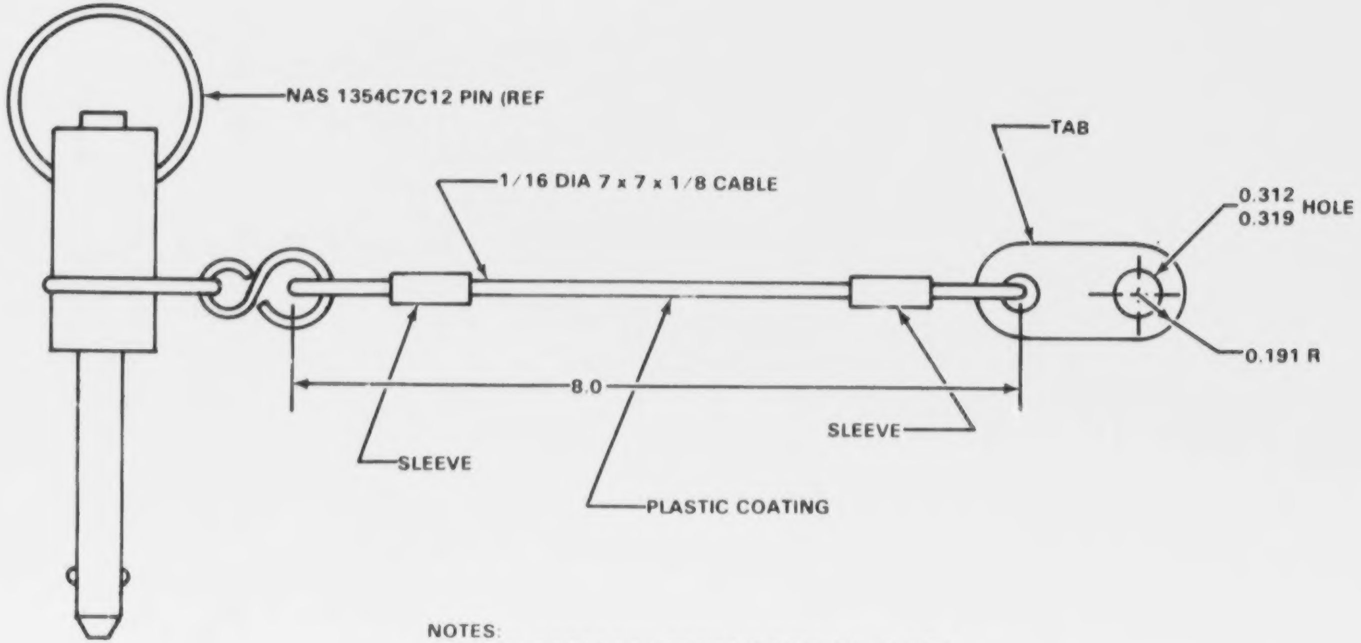

1.06
0.467
0.474 HOLE 4 PLACES
0.50
1.50
0.38
1.20
0.70
0.76R
0.040
9.70

Figure D-276. Part Number 205-060-205-19 ANGLE Shown
205-060-205-20 ANGLE Opposite
Fabricate from: NSN 9535-00-084-4551
Material: 2024 AL ALY, Federal Specification QQ-A, 250/5
T3, 0.040 Inch Thick, 2.6 Inch Wide, 10.4 Inch Long

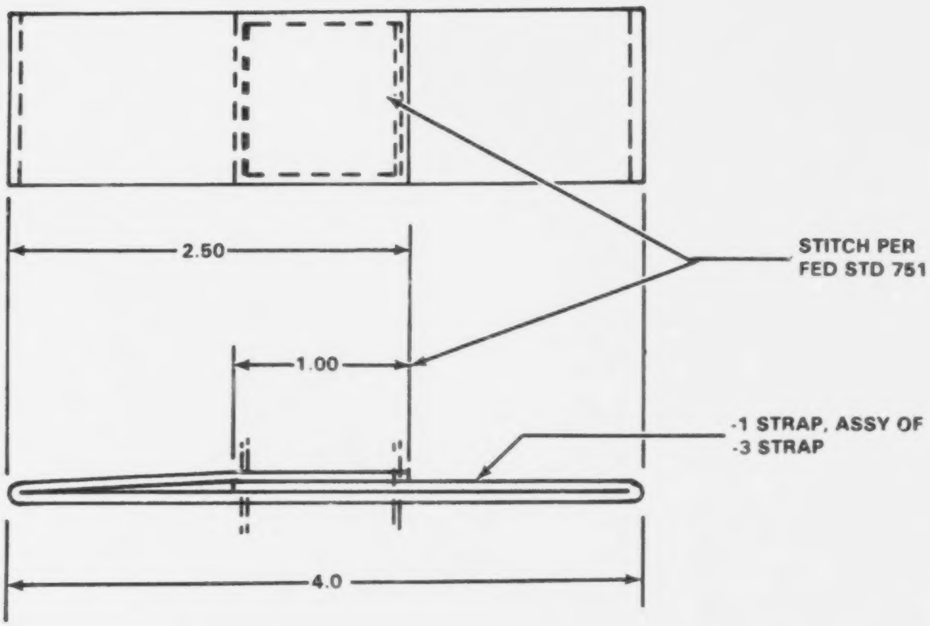

1.64
TYP
0.82
TYP
0.583
0.573
TYP
1.161
1.151
TYP
0.25 R TYP
0.125
0.208
0.214
4 HOLES

| | | |
|---|---|---|
| Figure D-277. | Part Number | 205-062-696-1 PLATE |
| | Fabricate from: | NSN 9535-00-232-0478 |
| | Material: | 2024 AL ALY Federal Specification QQ-A-250/5 T3, 0.125 Inch Thick, 1.7 Inch Wide. 1.7 Inch Long |


NAS 1354C7C12 PIN (REF
1/16 DIA 7 x 7 x 1/8 CABLE
TAB
0.312
0.319 HOLE
0.191 R
8.0
SLEEVE
SLEEVE
PLASTIC COATING

NOTES:
1. CABLE: CORROSION RESISTANT PER MIL-W-5424
2. COATING: PLASTIC PER MIL-I-631, TYPE F, GRADE A CLASS II, CAT. I
3. SLEEVE: COPPER, ZINC PLATED 2 REQD.
4. TAB: 2024 AL ALY, FEDERAL SPECIFICATION QQ-A-250 T4, 0.040, NSN 9535-00-086-9930, ANODIZED PER MIL-A-8625, TYPE 1
5. LANYARD MAY BE MADE FROM LW-1023-1-8 PURCHASED FROM HARTWELL CORP, LOS ANGELES, CALIF CODE IDENT NO. 83014

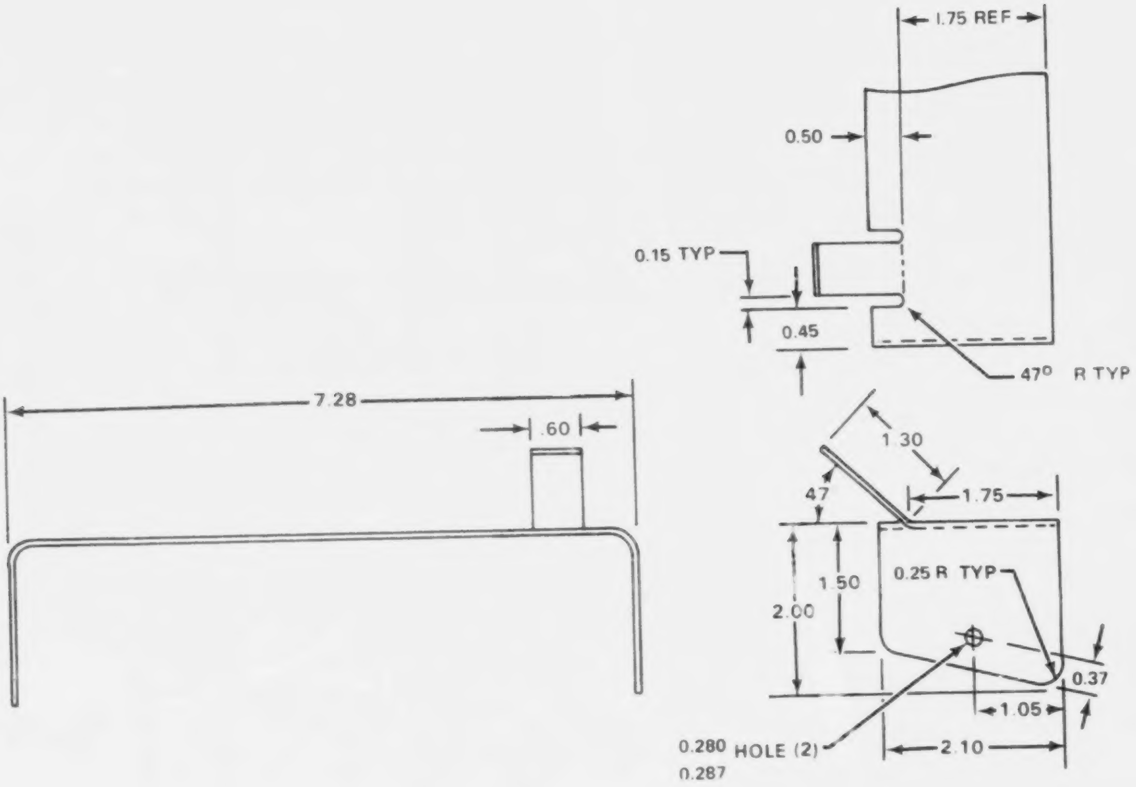
Figure D-278. **Part Number** **205-072-221-3 LANYARD**
**Fabricate from:** **NSN 4010-00-075-7941**
**Material:**


STITCH PER FED STD 751
2.50
1.00
-1 STRAP, ASSY OF -3 STRAP
4.0

NOTES:

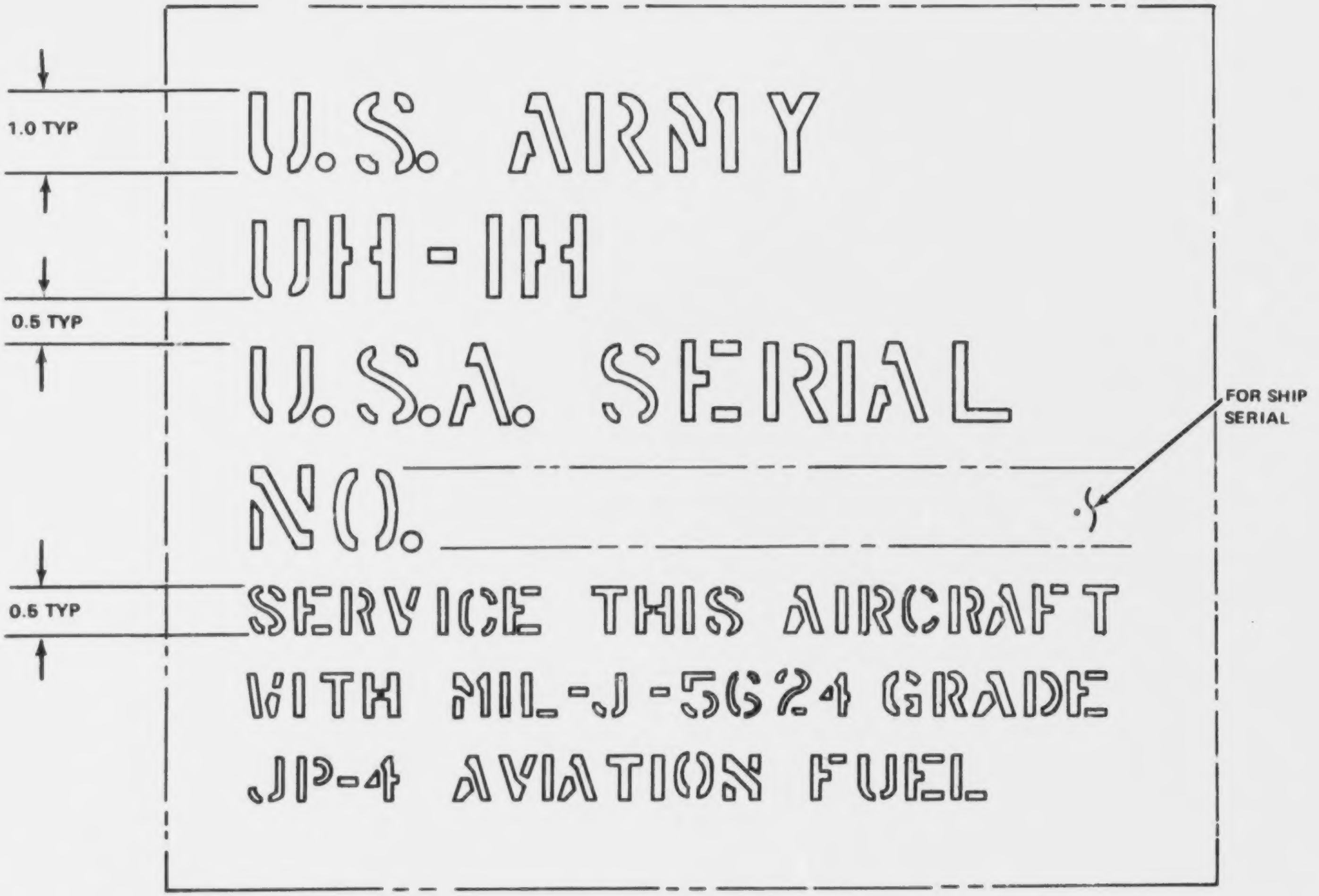
1. 205-070-772-3 STRAP MAKE FROM TYPE XVII X 10.5 NYLON WEBBING MIL-W-4088-COLOR LIGHT GULL GREY NO. 36440 FED STD 595
2. NYLON THREAD MIL-T-7808
3. HEAT SEAR ENDS OF ALL WEBBING

| | | |
|---|---|---|
| Figure D-279. | Part Number | 205-070-772-1 STRAP, Assembly |
| | Fabricate from: | NSN 8305-00-267-3009 |
| | Material: | Nylon Webbing Type XVII, MIL-W-4088 |


1.75 REF
0.50
0.15 TYP
0.45
47° R TYP
7.28
.60
1.30
47
1.75
1.50
2.00
0.25 R TYP
0.37
1.05
0.280
0.287
HOLE (2)
2.10

NOTES:
1. MARK PER BPS FW 4050
2. ALL INSIDE RADII 0.25

| | | |
|---|---|---|
| Figure D-280. | Part Number | 205-070-795-1 COVER |
| | Fabricate from: | NSN 9535-00-232-0378 |
| | Material: | 2024 AL ALY, Federal Specification QQ-A-362 T3, 0.063 Inch Thick, 3.5 Inch Wide, 11.70 Inch Long |

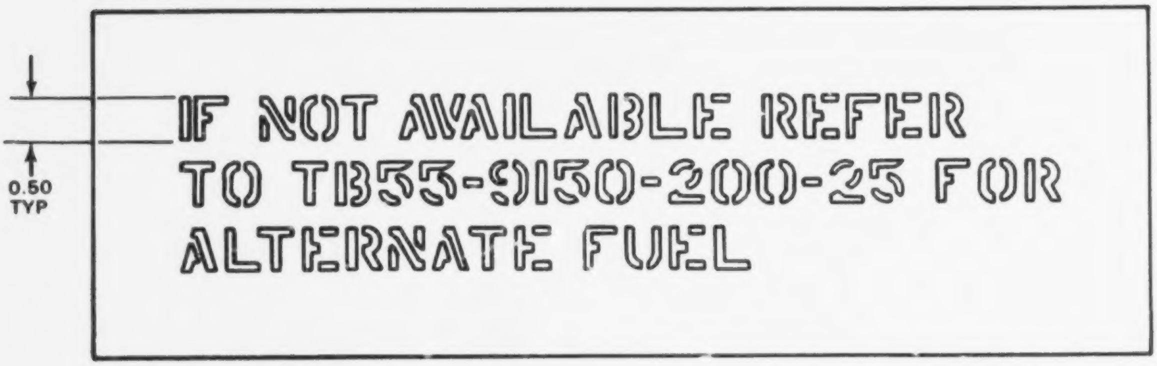

1.0 TYP
0.5 TYP
0.5 TYP
U.S. ARMY
UH-1H
U.S.A. SERIAL
NO.
FOR SHIP SERIAL
SERVICE THIS AIRCRAFT
WITH MIL-J-5624 GRADE
JP-4 AVIATION FUEL

NOTES:

LETTERS TO BE SPACED APPROX AS SHOWN

Figure D-281.

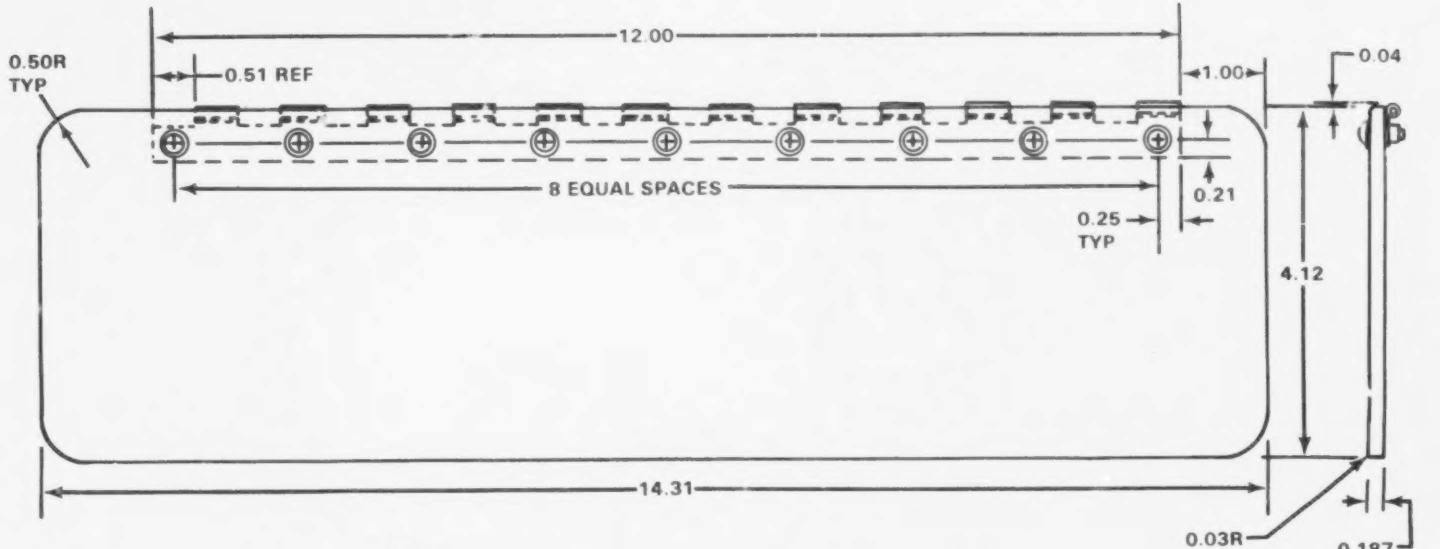
| | |
|---|---|
| Part Number | 205-070-862-1 STENCIL |
| Fabricate from: | 9310-00-265-6797 |
| Material: | Stencil Board, Federal Specification UU-S-625<br>Type 2, Grade 1 |


IF NOT AVAILABLE REFER
TO TB55-9150-200-25 FOR
ALTERNATE FUEL
0.50
TYP

NOTES:

LETTER TO BE SPACED AS SHOWN

Figure D-282. Part Number 205-070-882-1 STENCIL
Fabricate from: NSN 9310-00-265-6797
Material: Stencil Board, Federal Specification UU-S-625, Type 2 Grade 1


12.00
0.51 REF
0.50R
TYP
1.00
0.04
8 EQUAL SPACES
0.21
0.25
TYP
4.12
14.31
0.03R
TYP
0.187
(STOCK
SIZE REF)

NOTES:

1. 205-072-039-3 DOOR MAKE FROM ACRYLIC PLASTIC MIL-P-5425
2. 205-072-039-5 HINGE HALF MAKE FROM MS2057H2-130 HINGE MATERIAL

| | | |
|---|---|---|
| Figure D-283. | Part Number | 205-072-039-1 DOOR, Assy Of |
| | Fabricate from: | NSN 9330-00-291-4800,<br>NSN 5340-00-993-1461 |
| | Material: | Plastic sheet Acrylic Transparent, Federal Specificaiton MIL-P-5425 FINA, 0.187 Inch Thick, 4.2 Inch Wide, 14.4 Inch Long Leaf, Butt Hinge A1 A AL ALY 0.0531 Inch Wide Make From MS20257HP2-130 (Length 13.0) |

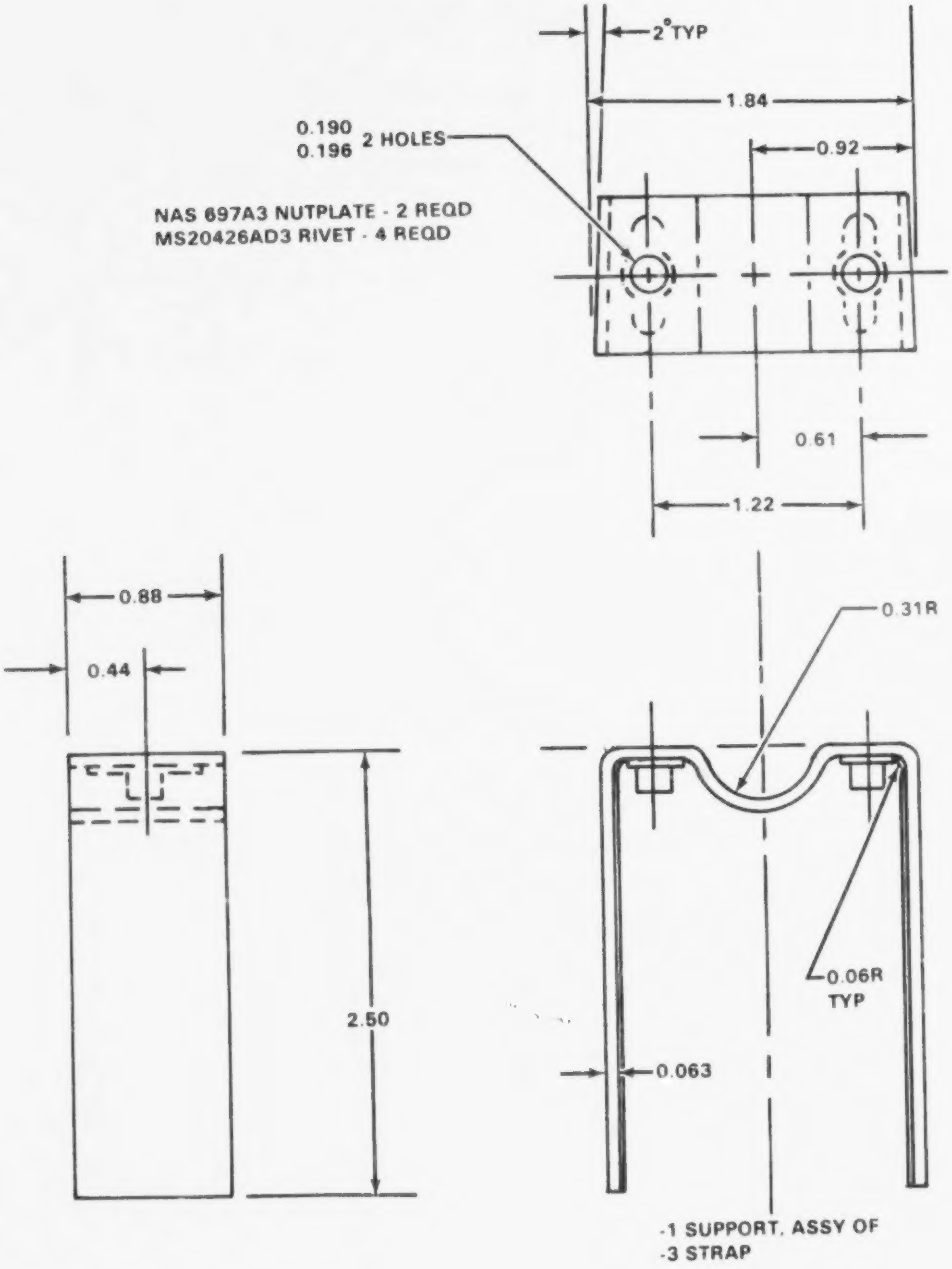

2° TYP
1.84
0.190
0.196
2 HOLES
0.92
NAS 697A3 NUTPLATE - 2 REQD
MS20426AD3 RIVET - 4 REQD
0.61
1.22
0.88
0.44
0.31R
2.50
0.06R
TYP
0.063
-1 SUPPORT, ASSY OF
-3 STRAP

**Figure D-284.** **Part Number** **205-072-224-1 GUIDE TUBE**
**Fabricate from:** **NSN 9535-00-232-1882, 5310-00-728-7716**
**Material:** **6061 AL ALY Federal Specification QQ-A-205/11 TO, 0.063 Inch Thick, 1.3 Inch Wide, 7.5 Inch Long**

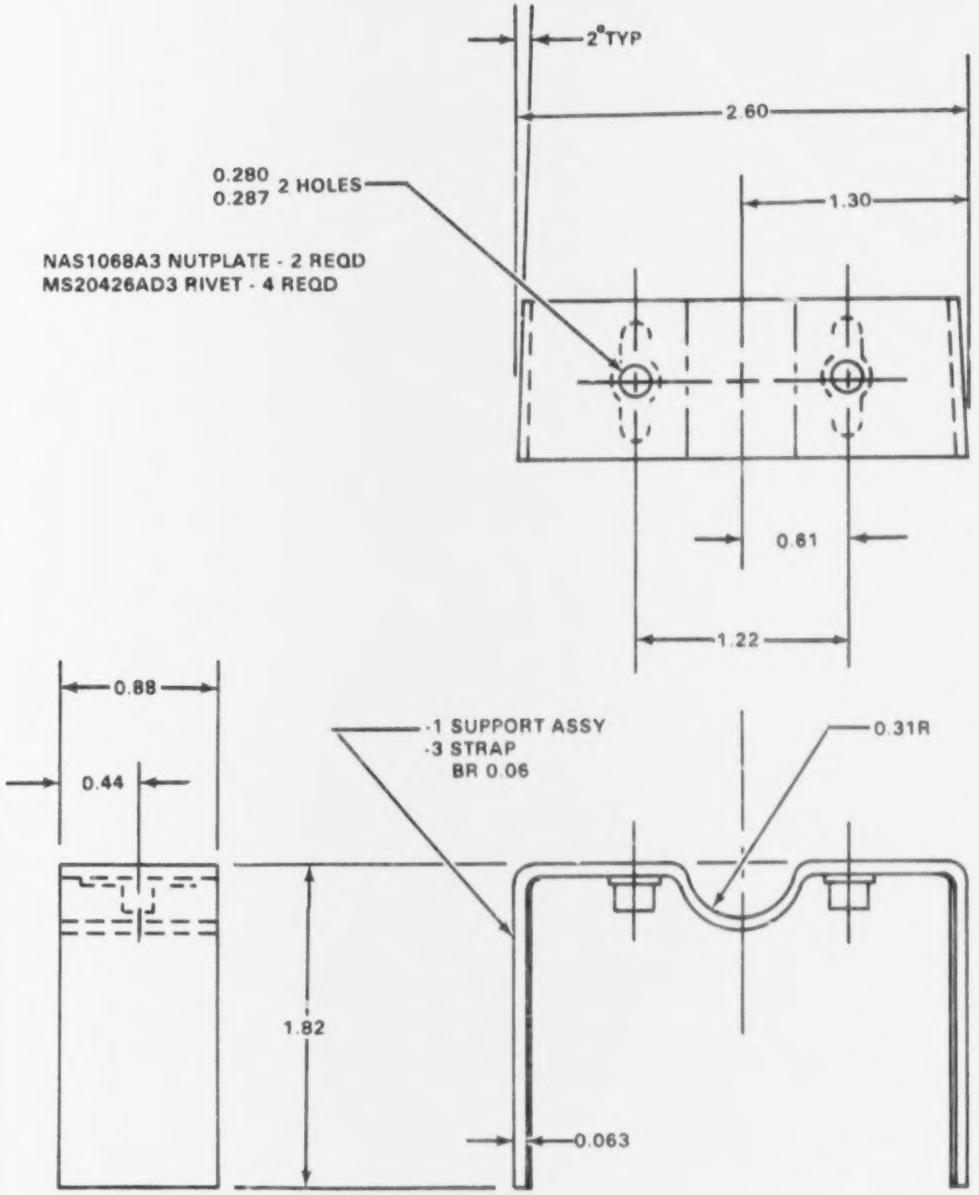
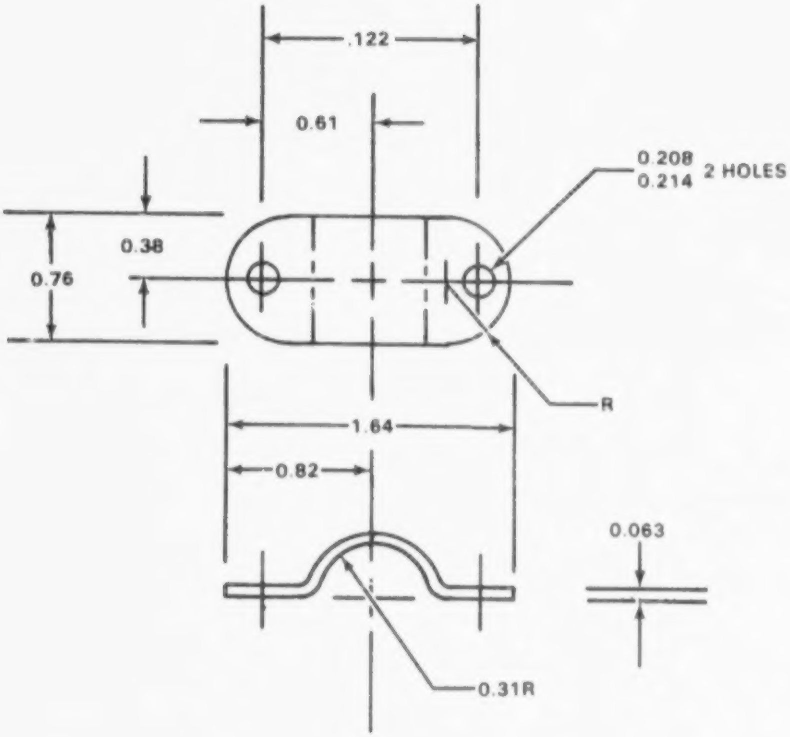

2° TYP
2.60
0.280
0.287
2 HOLES
1.30
NAS1068A3 NUTPLATE - 2 REQD
MS20426AD3 RIVET - 4 REQD
0.61
1.22
0.88
0.44
-1 SUPPORT ASSY
-3 STRAP
BR 0.06
0.31R
1.82
0.063

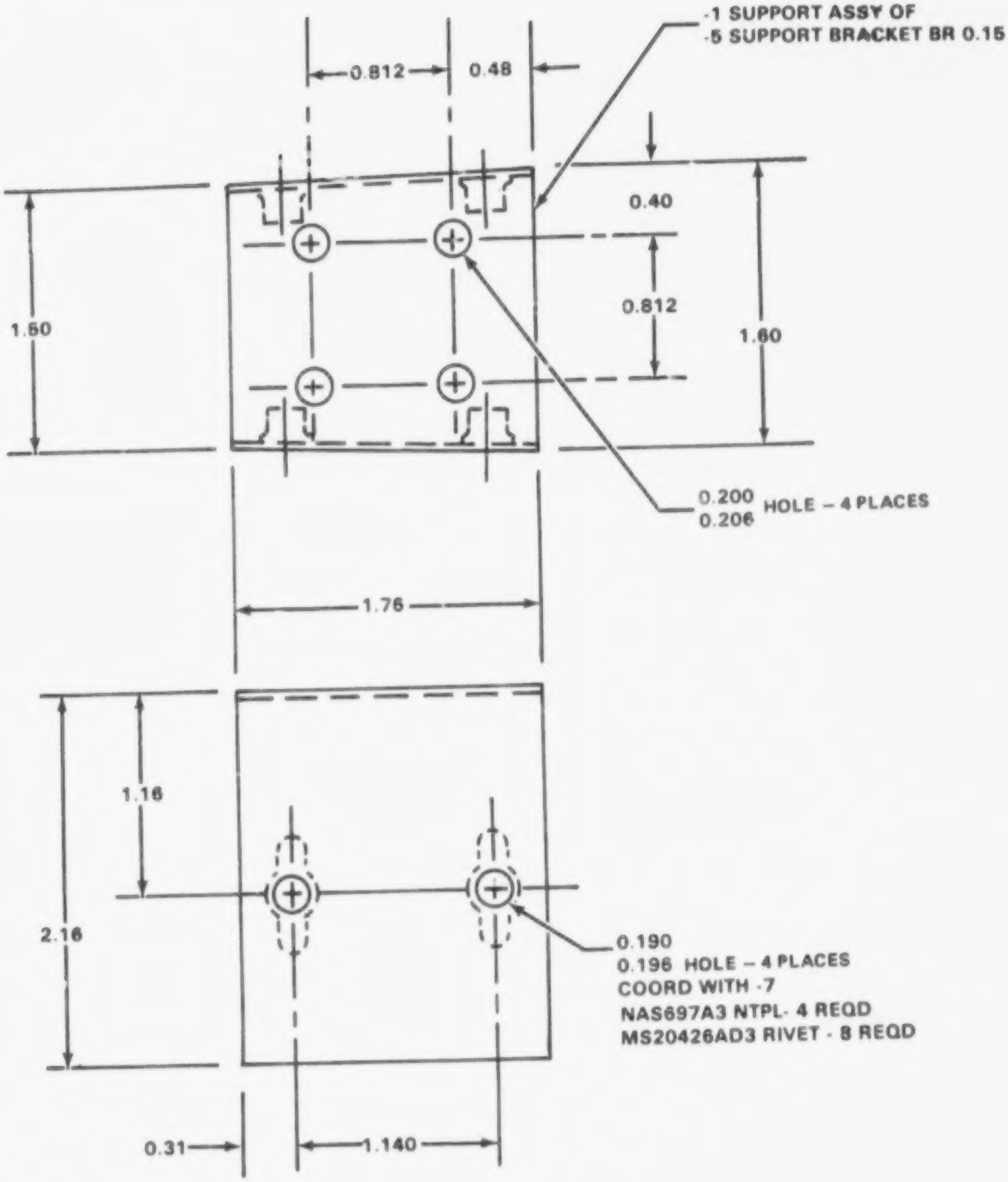
Figure D-285. **Part Number** 205-072-225-1 GUIDE-TUBE
**Fabricate from:** NSN 9535-00-232-1882, 5310-00-772-3720
**Material:** 6061 AL ALY, Federal Specification QQ-A-205/11, TO
0.063 Inch Thick, 1.3 Inch Wide, 6.7 Inch Long


.122
0.61
0.208
0.214 2 HOLES
0.38
0.76
R
1.64
0.82
0.063
0.31R

NOTES:

BEND RADIAS 0.06

Figure D-286. **Part Number** 205-072-226-1 CLAMP-GUIDE
**Fabricate from:** NSN 9535-00-232-1882
**Material:** 6061 AL ALY Federal Specification QQ-A-250/11 TO, 0.063 Inch Thick, 1.0 Inch Wide, 3.0 Inch Long

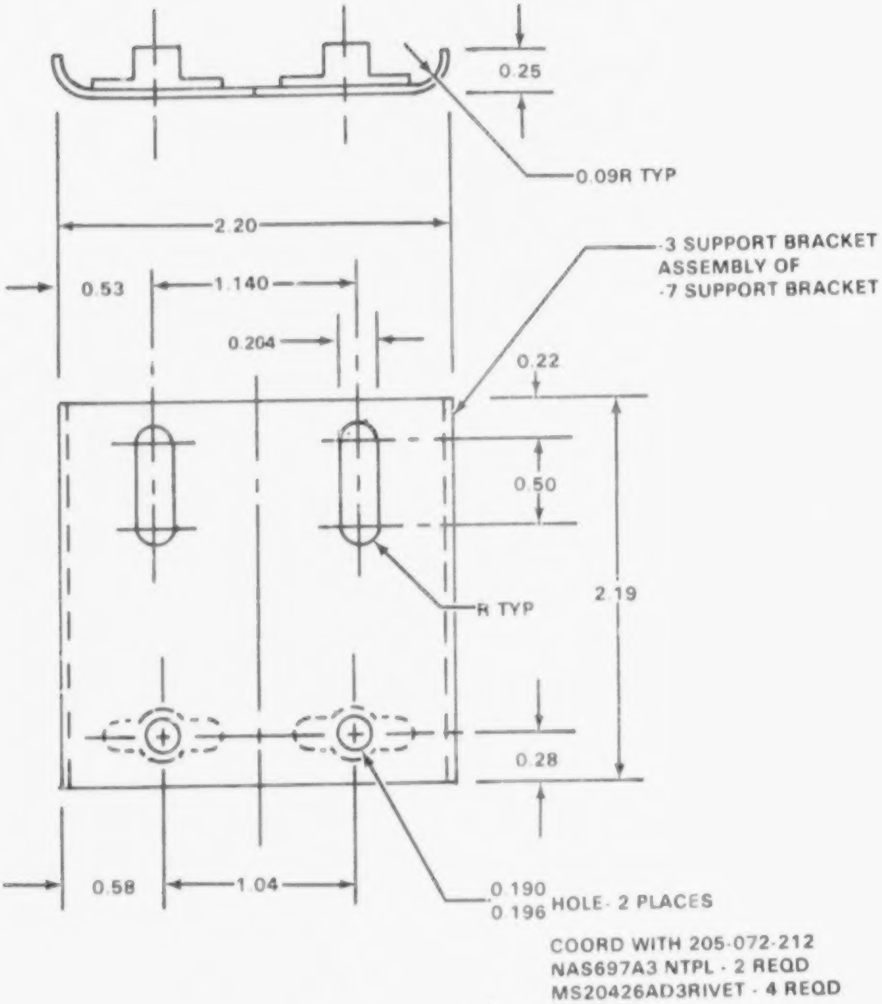

0.812
0.48
0.40
0.812
1.50
1.60
1.76
1.16
2.16
0.31
1.140

-1 SUPPORT ASSY OF
-5 SUPPORT BRACKET BR 0.15

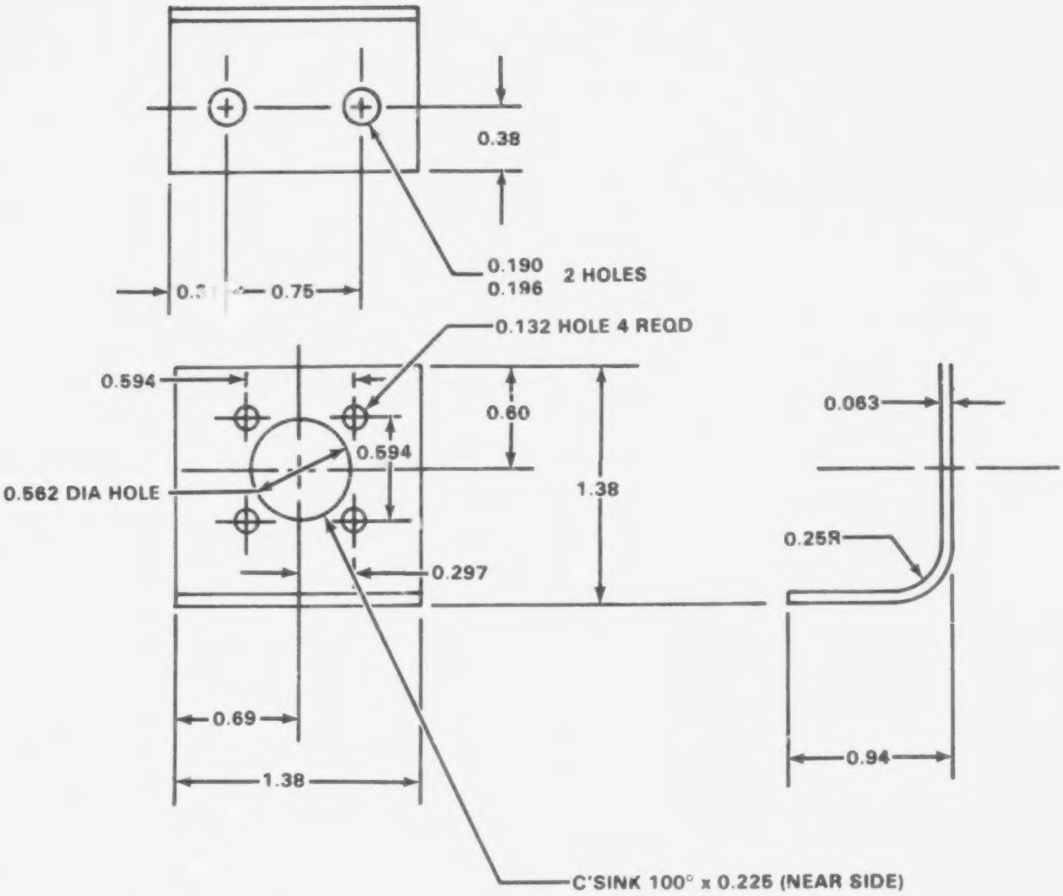
0.200
0.206 HOLE – 4 PLACES

0.190
0.196 HOLE – 4 PLACES
COORD WITH -7
NAS697A3 NTPL- 4 REQD
MS20426AD3 RIVET - 8 REQD

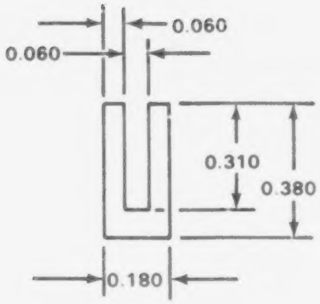
Figure D-287. Part Number 205-072-227-1 SUPPORT BRACKET ASSEMBLY OF
Fabricate from: NSN 9535-00-167-2267, 5310-00-728-7716
Material: 2024 AL ALY, Federal Specification QQ-A-250/5 TO,
0.040 Inch Thick, 2.0 Inch Wide, 7.0 Inch Long


0.25
0.09R TYP
2.20
-3 SUPPORT BRACKET
ASSEMBLY OF
-7 SUPPORT BRACKET
0.53
1.140
0.204
0.22
0.50
R TYP
2.19
0.28
0.58
1.04
0.190
0.196 HOLE - 2 PLACES
COORD WITH 205-072-212
NAS697A3 NTPL - 2 REQD
MS20426AD3RIVET - 4 REQD

| | | |
|---|---|---|
| Figure D-288. | Part Number | 205-072-227-3 SUPPORT BRACKET, Assembly of |
| | Fabricate from: | NSN 9535-00-167-2267, 5310-00-728-7716 |
| | Material: | 2024 AL ALY, Federal Specification QQ-A-250/5, TO, 0.032 Inch Thick, 3.0 Inch Wide, 3.0 Inch Long |


0.38
0.190
0.196
2 HOLES
0.31
0.75
0.132 HOLE 4 REQD
0.594
0.60
0.594
0.562 DIA HOLE
1.38
0.297
0.69
1.38
0.063
0.25R
0.94
C'SINK 100° x 0.225 (NEAR SIDE)

| Figure D-289. | | |
|---|---|---|
| | Part Number: | 205-072-317-1 BRACKET |
| | Fabricate from: | NSN 9535-00-232-0378 |
| | Material: | 2024 AL ALY Federal Specification QQ-A-250/5 T3,<br>0.063 Inch Thick, 1.5 Inch Wide, 2.38 Inch Long |



NOTES:

1. PART NO. 205-706-029-11 SEAL
   MAKE FROM BELL STD 110-076
   20 INCHES LONG
2. RUBBER EXTRUSION MAY BE PURCHASED
   FROM BELL HELICOPTER

| Figure D-290. | | |
|---|---|---|
| | **Part Number** | **205-706-029-11 SEAL** |
| | **Fabricate from:** | **NSN 9390-00-134-0184** |
| | **Material:** | **Rubber Synthetic Extruded Federal Specification MIL-R-6855, Class II Grade 60, Color BLACK** |

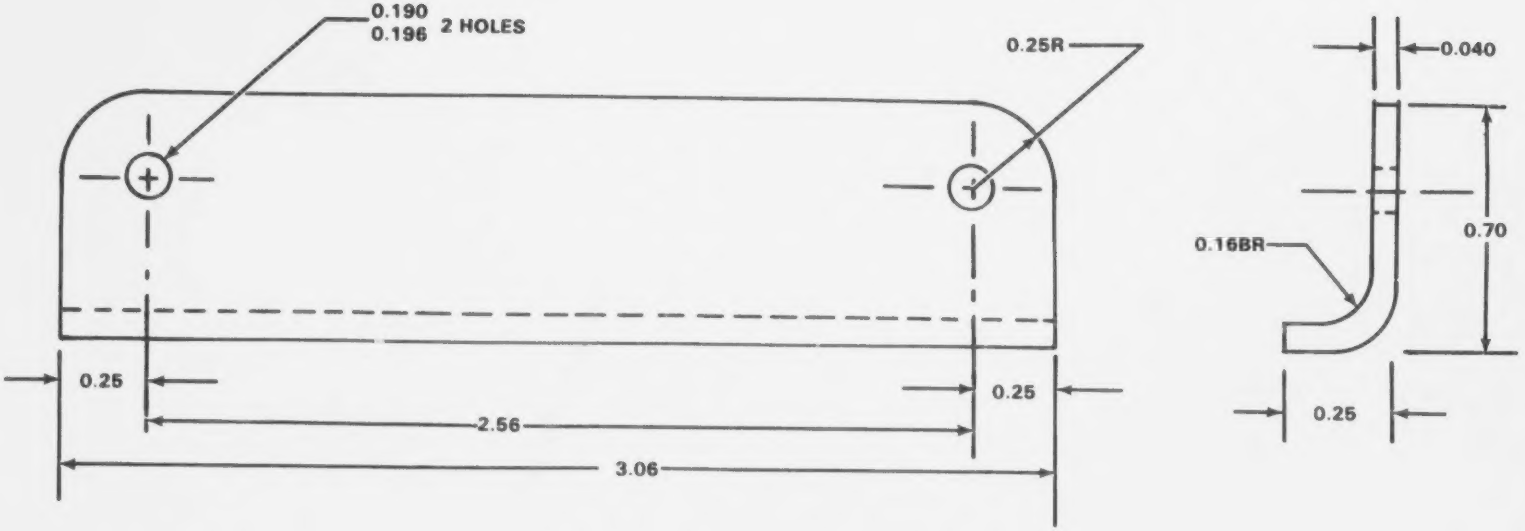
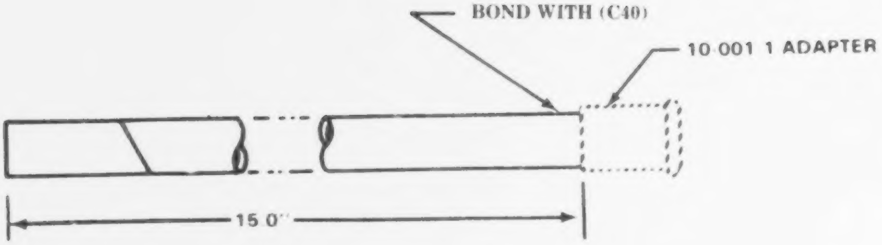

0.190
0.196 2 HOLES
0.25R
0.040
0.16BR
0.70
0.25
0.25
0.25
2.56
3.06

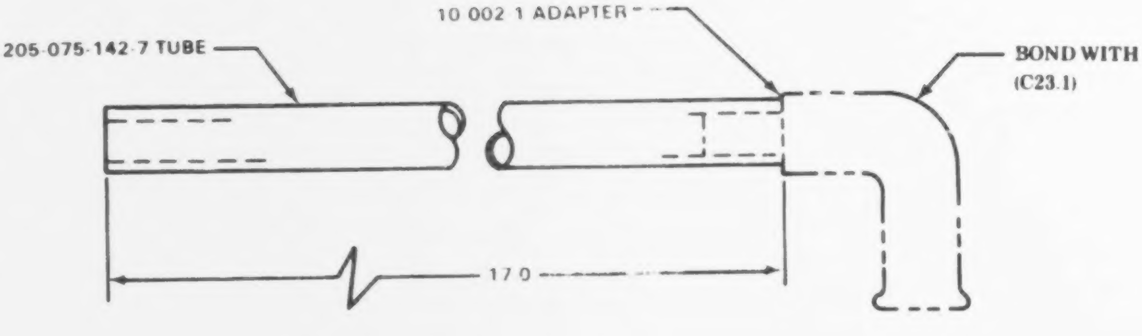
Figure D-291. Part Number: 205-706-029-15 LINK
Fabricated from: NSN 9535-00-084-4551
Material: 2024 AL ALY Federal Specification QQ-A-250/5 T-3
0.040 Inch Thick, 1.0 Inch Wide, 5.0 Inch Long


BOND WITH (C40)
10-001-1 ADAPTER
15.0"

NOTES:

1. PRIOR TO BONDS CLEAN SURFACES WITH ACETONE CHEM PURE OR METHYL ETHYL KETONE CHEM PURE
2. ALTERNATE MAT'L RUBBER-BLACK MIL-R-6855, CLASS II, GRADE 60

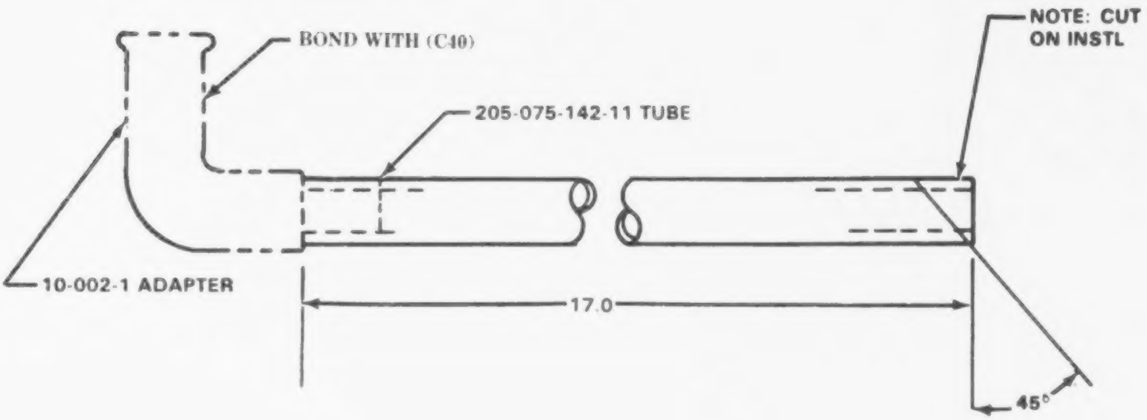
**Figure D-292.** Part Number: 205-075-135-19 TUBE
Fabricate from: NSN 4720-00-540-3644
Material: Rubber Black Synthetic Federal Specification MIL-R-6855


10-002-1 ADAPTER
205-075-142-7 TUBE
BOND WITH (C23.1)
17.0

NOTES:

1. PRIOR TO BOND CLEAN SURFACES WITH ACETONE CHEM PURE OR METHYL ETHYL KETONE CHEM PURE
2. ALTERNATE MAT'L RUBBER-BLACK, MIL-R-6855, CLASS II - GRADE 60

**Figure D-293.** Part Number: 205-075-142-5 TUBE
Fabricate from: NSN 4720-00-540-3644
Material: Tubing Rubber Synthetic Black Federal Specification MIL-R-6855 Class 2 Grade 40, ⅛ Inch Wall Thick, ⅜ Inch ID


BOND WITH (C40)
NOTE: CUT ON INSTL
205-075-142-11 TUBE
10-002-1 ADAPTER
17.0
45°

NOTES:

1. PRIOR TO BOND CLEAN SURFACES WITH ACETONE CHEM PURE OR METHYL ETHYL KETONE CHEM PURE
2. ALTERNATE MAT'L: RUBBER-BLACK MIL-R-6855, CLASS II - GRADE 60

Figure D-294.

| | |
|---|---|
| Part Number: | 205-75-142-9 TUBE |
| Fabricate from: | NSN 4720-00-540-3644 |
| Material: | Tubing Rubber Synthetic Black<br>Federal Specification MIL-R-6855 Class 2<br>Grade 40, 1/8 Inch Wall Thick, 3/8 Inch I.D. |

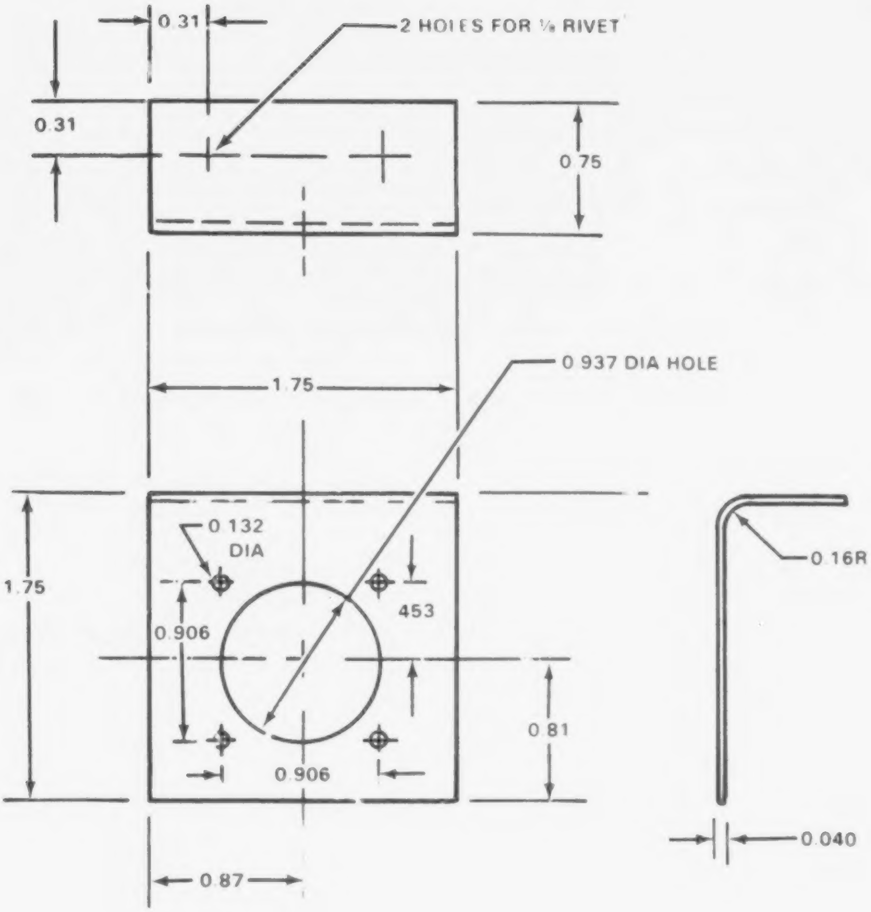

0.31
2 HOLES FOR ⅛ RIVET
0.31
0.75
1.75
0.937 DIA HOLE
1.75
0.132
DIA
0.906
453
0.81
0.906
0.87
0.16R
0.040

Figure D-295. **Part Number** **205-075-151-1 BRACKET**
**Fabricate from:** **NSN 9535-00-232-0583**
**Material:** **2024 AL ALY Sheet, Federal Specification QQ-A-250 T3, 0.040 Inch Thick, 2.2 Inch Wide, 3.0 Inch Long**

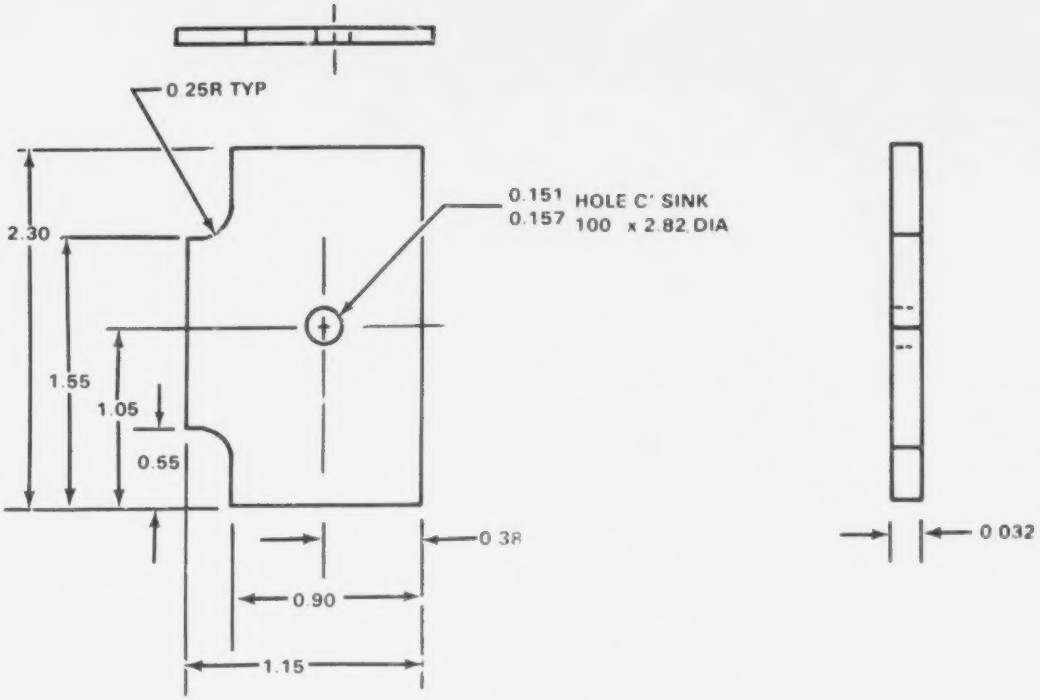

0.25R TYP
0.151
0.157
HOLE C' SINK
100 x 2.82 DIA
2.30
1.55
1.05
0.55
0.38
0.90
1.15
0.032

Figure D-296. Part Number 205-075-210-3 PLATE
Fabricate from: NSN 9535-00-167-2279
Material: 2024 AL ALY Federal Specification QQ-A-250/5, 0.032 Inch Thick, 2.5 Inch Wide, 2.5 Inch Long

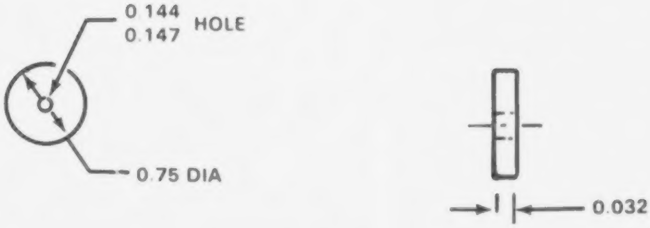

0.144
0.147
HOLE
0.75 DIA
0.032

Figure D-297. Part Number 205-075-210-5 PLATE
Fabricate from: NSN 9535-00-167-2279
Material: 2024 AL ALY Federal Specification QQ-A-250/5, 0.032 Inch Thick, 1.0 Inch Wide, 1.0 Inch Long

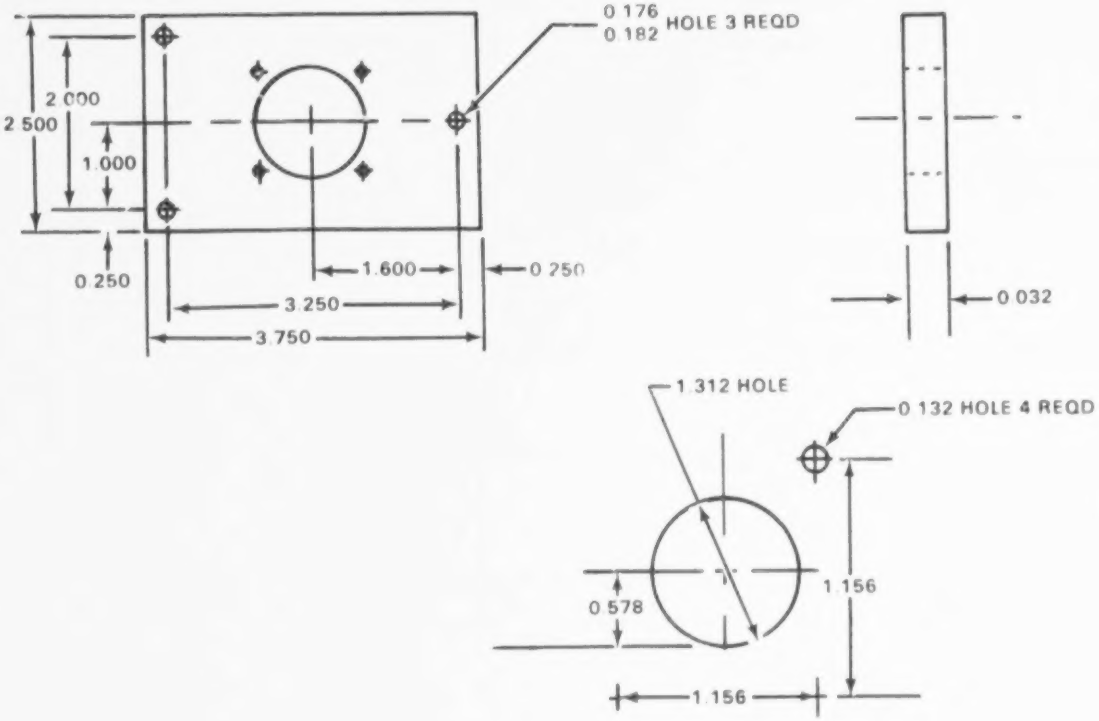
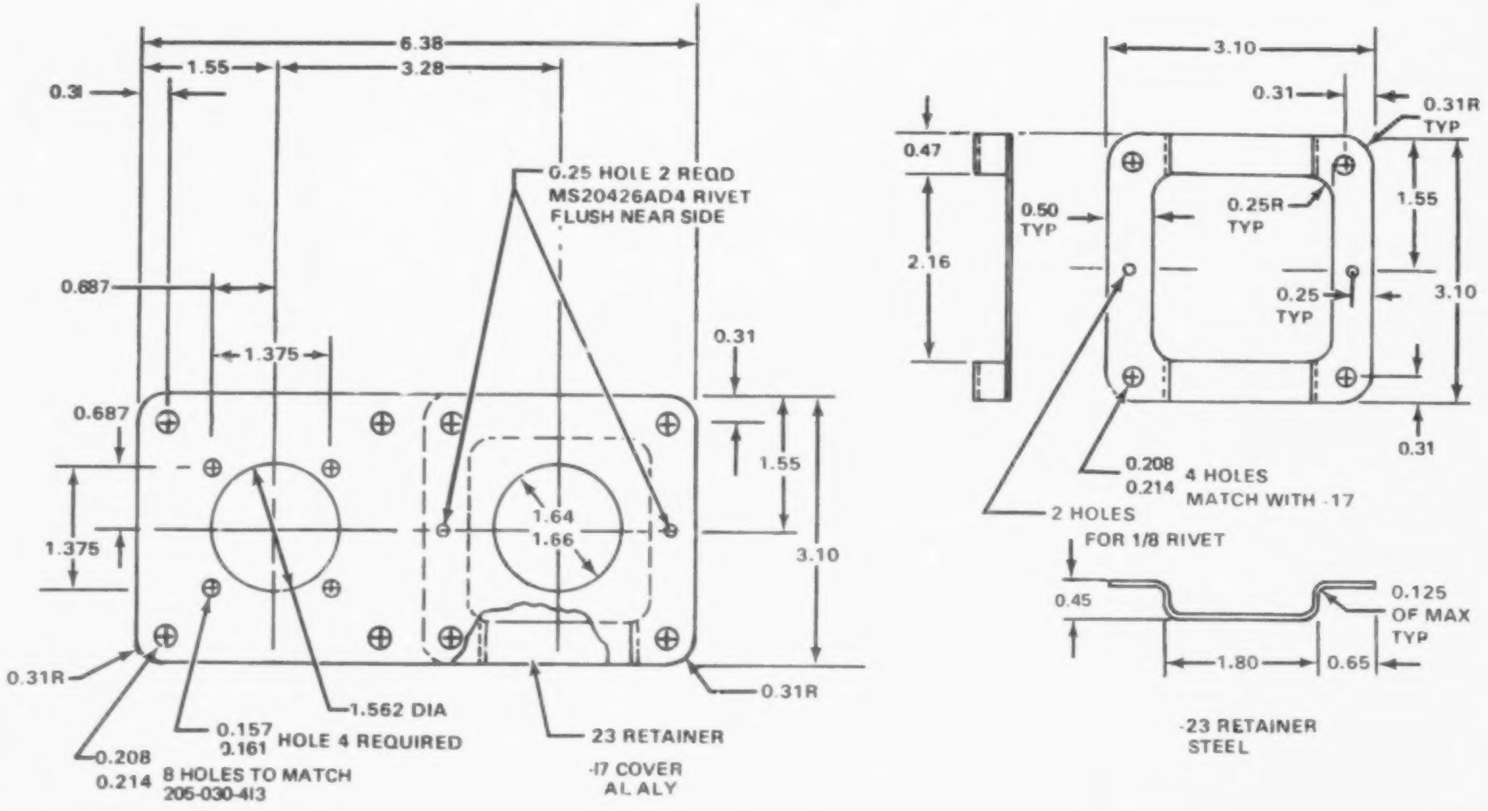

0.176
0.182 HOLE 3 REQD
2.000
2.500
1.000
0.250
1.600
0.250
3.250
3.750
0.032
1.312 HOLE
0.132 HOLE 4 REQD
0.578
1.156
1.156

Figure D-298. **Part Number:** 205-075-237-5 PLATE RECEPTACLE
**Fabricate from:** NSN 9535-00-086-9729
**Material:** 2024 AL ALY, Federal Specification QQ-A-250/5, 0.032 Inch Thick, 2.7 Inch Wide, 4.0 Inch Long


6.38
1.55
3.28
0.31
0.25 HOLE 2 REQD
MS20426AD4 RIVET
FLUSH NEAR SIDE
0.687
1.375
0.31
0.687
1.55
1.375
3.10
1.64
1.66
0.31R
0.31R
1.562 DIA
0.157
0.161 HOLE 4 REQUIRED
0.208
0.214 8 HOLES TO MATCH
205-030-413
23 RETAINER
-17 COVER
AL ALY
3.10
0.31
0.31R
TYP
0.47
0.50
TYP
0.25R
TYP
1.55
2.16
0.25
TYP
3.10
0.31
0.208
0.214 4 HOLES
MATCH WITH -17
2 HOLES
FOR 1/8 RIVET
0.45
0.125
OF MAX
TYP
1.80
0.65
-23 RETAINER
STEEL

NOTES:
1. RIVET 205-961-102-23 RETAINER TO 205-961-102-17 COVER

Figure D-299. Part Number: **205-961-102-17 COVER**
Fabricate from: **NSN 9535-00-086-9729, NSN 9515-00-683-9294**
Material: **2024 AL ALY, Federal Specification QQ-A-250/5 T3, 0.032 Inch Thick, 3.3 Inch Wide, 6.6 Inch Long. Metal Sheet Steel Corrosion, Federal Specification, MIL-S-5059 Comp 302, Crew 18-18, 0.060 Inch Thick, 3.6 Inch Wide, 4.6 Inch Long**

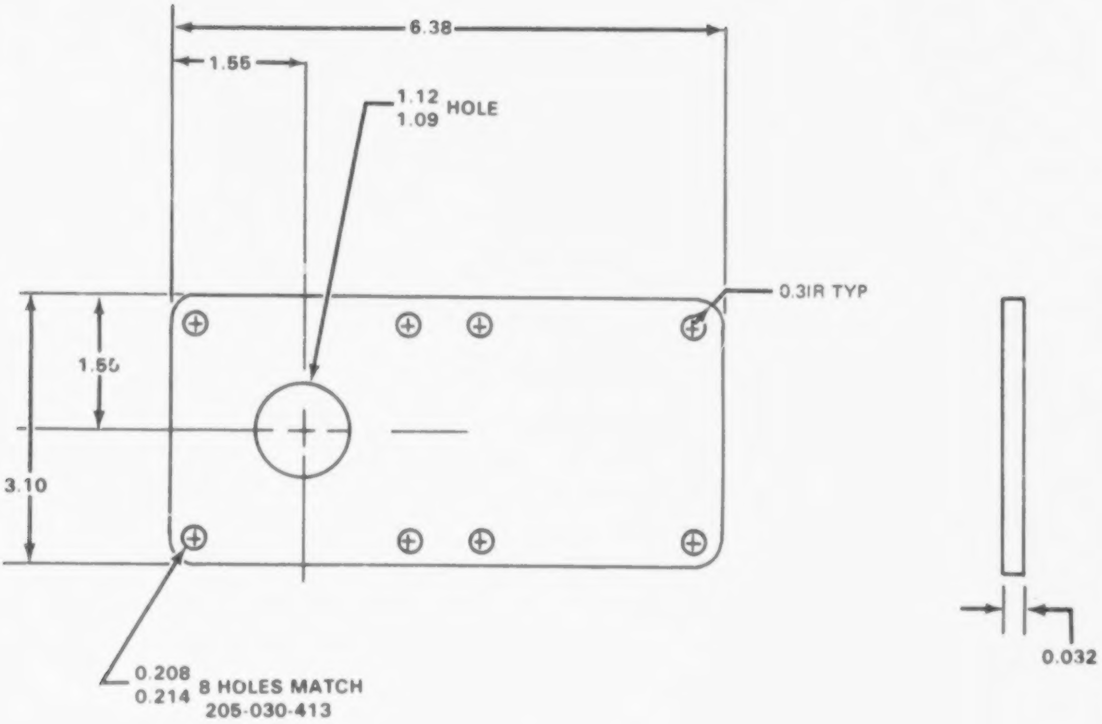

6.38
1.55
1.12
1.09 HOLE
0.31R TYP
1.55
3.10
0.208
0.214 8 HOLES MATCH
205-030-413
0.032

Figure D-300.

| | |
|---|---|
| Part Number | 205-961-102-25 COVER |
| Fabricate from: | NSN 9535-00-086-9729 |
| Material: | 2024 AL ALY, Federal Specification QQ-A-250/5 T3<br>0.032 Inch Thick, 3.3 Inch Wide, 6.6 Inch Long |

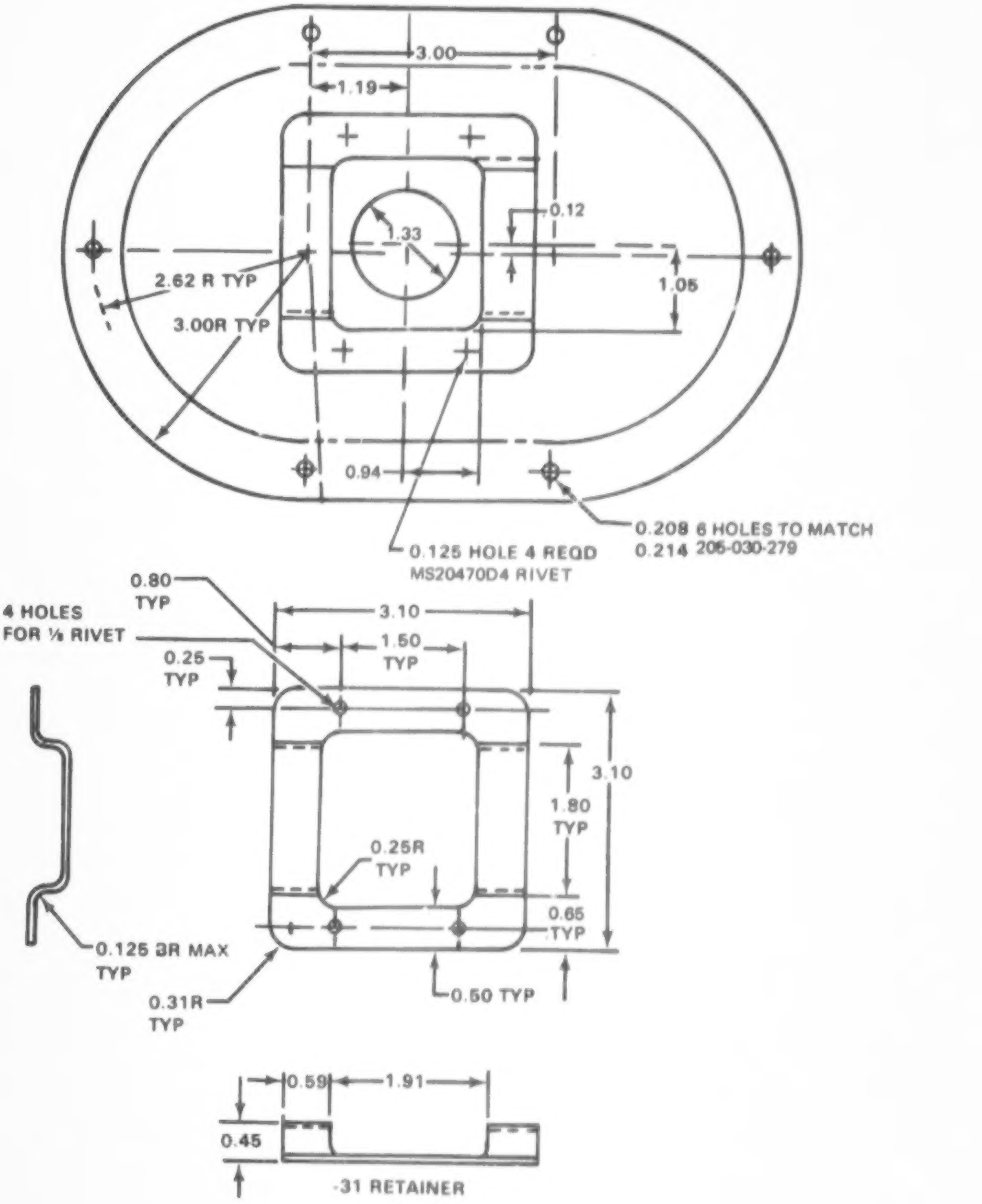
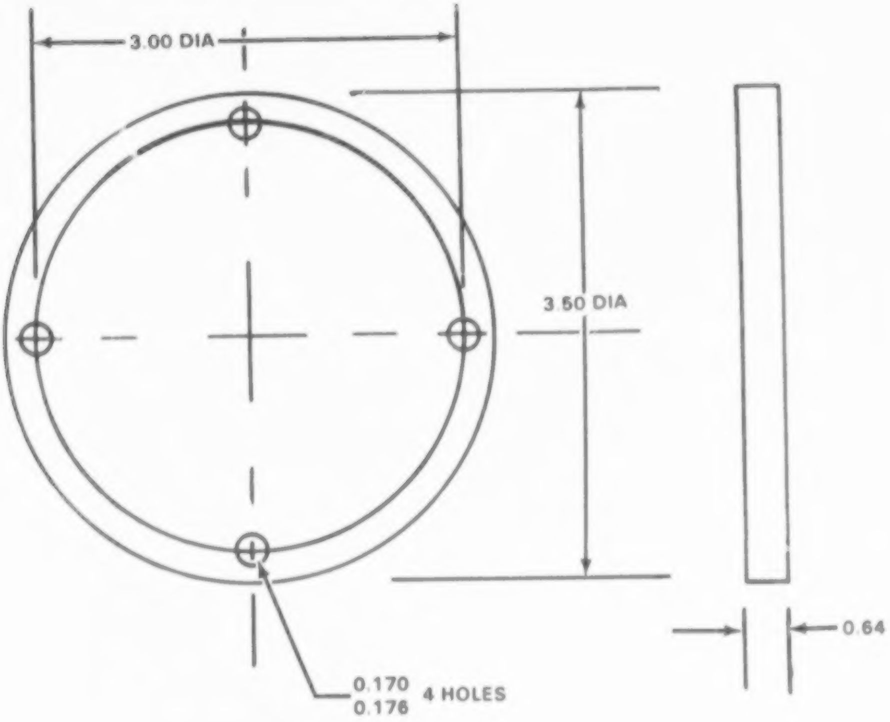
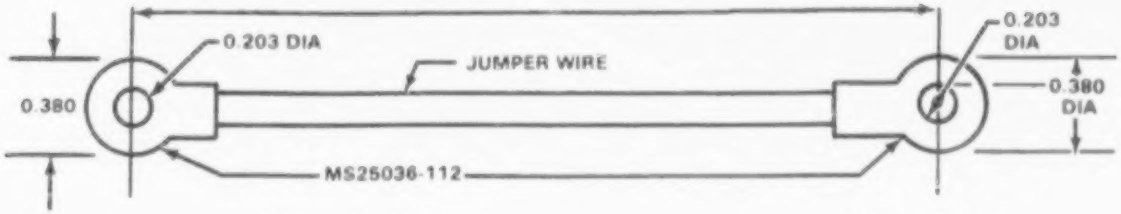

3.00
1.19
0.12
1.33
2.62 R TYP
3.00R TYP
1.05
0.94
0.208 6 HOLES TO MATCH
0.214 205-030-279
0.125 HOLE 4 REQD
MS20470D4 RIVET
0.80
TYP
4 HOLES
FOR ⅛ RIVET
3.10
1.50
TYP
0.25
TYP
3.10
1.80
TYP
0.25R
TYP
0.65
TYP
0.125 3R MAX
TYP
0.31R
TYP
0.50 TYP
0.59
1.91
0.45
-31 RETAINER

**Figure D-301.** Part Number: 205-961-102-33 COVER
Fabricate from: NSN
Material: Metal Sheet Steel Corrosion, Federal Specification MIL-S-5059 COMP 302, Annealed, CRES 18-8, 0.060 Inch Thick, 6.7 Inch Wide, 9.8 Inch Long, 3.16 Inch Wide, 4.6 Inch Long



NOTES:
1. 205-961-155-3 WINDOW MAKE FROM 0.064 INCH THICK POLYCARBONATE MATERIAL
2. PURCHASE FROM TEXAS WESTERN PLASTICS INC, 1824 INDUSTRIAL BLVD, DALLAS, TEXAS PER BELL HELICOPTER SPEC 299-947-044 AND FEDERAL SPECIFICATION L-P-393

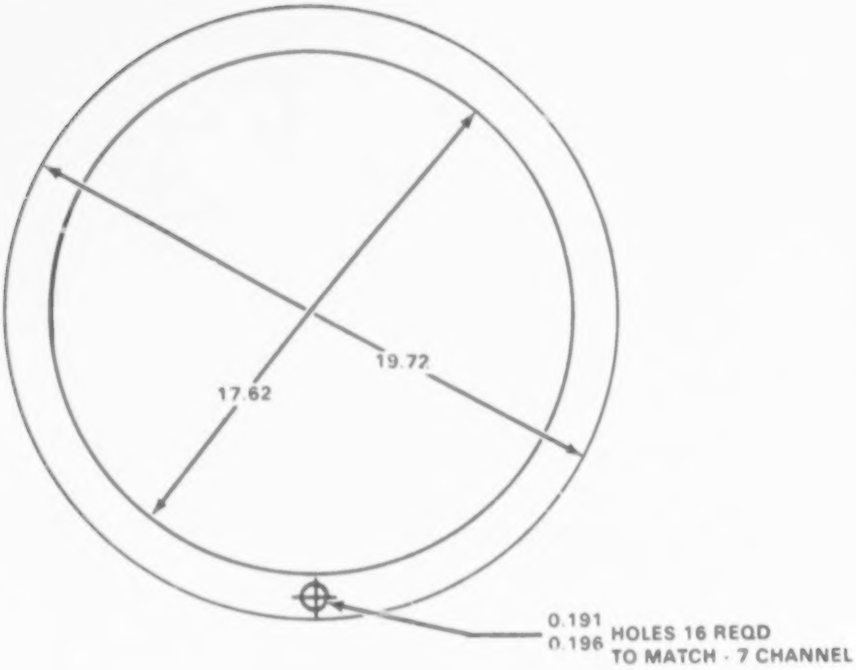
| Figure D-302. | | |
|---|---|---|
| | **Part Number** | 205-961-155-3 WINDOW |
| | **Fabricate from:** | :NSN |
| | **Material:** | Polycarbonate Resin Material Federal Specification L-P-393 and Bell Helicopter SPEC 299-947-044, 0.064 Inch Thick, 4.0 Inch Wide, 4.0 Inch Long |



NOTES:
1. SECURE TERMINAL LUG AND BULK WIRE.
2. ATTACH TERMINALS TO COPPER WIRE WITH MS3316 OR MS17726 CRIMPING TOOLS AS APPLICABLE.

| PART NO. | JUMPER WIRE | LENGTH |
|---|---|---|
| MS25083-2BB5 | TINNED STRANDED COPPER | 5.0 |
| MS25083-2BB6 | TINNED STRANDED COPPER | 6.0 |

Figure D-303. Part Number MS25083-2BB5 JUMPER ASSY
MS25083-2BB6 JUMPER ASSY
Fabricate from: NSN 5940-00-143-4794
NSN 6145-00-819-0058
Material: Terminal Lug Copper (MS25036-112)
Wire, Electrical Copper Tinned, Federal Specification QQ-W-343-TYPE RB Class I, AWG 12


19.72
17.62
0.191
0.196 HOLES 16 REQD
TO MATCH - 7 CHANNEL

NOTES:

1. PURCHASE FROM JOHNS-MANSVILLE PRODUCTS NEW YORK, NEW YORK CODE IDENT 92798

| THICKNESS | SIZE | STYLE |
|---|---|---|
| 0.047 INCH | 20.00 x 20.00 | 89 |

Figure D-304. **Part Number** 204-060-816-33 GASKET
**Fabricate from:** NSN 5330-00-938-1719
**Material:**

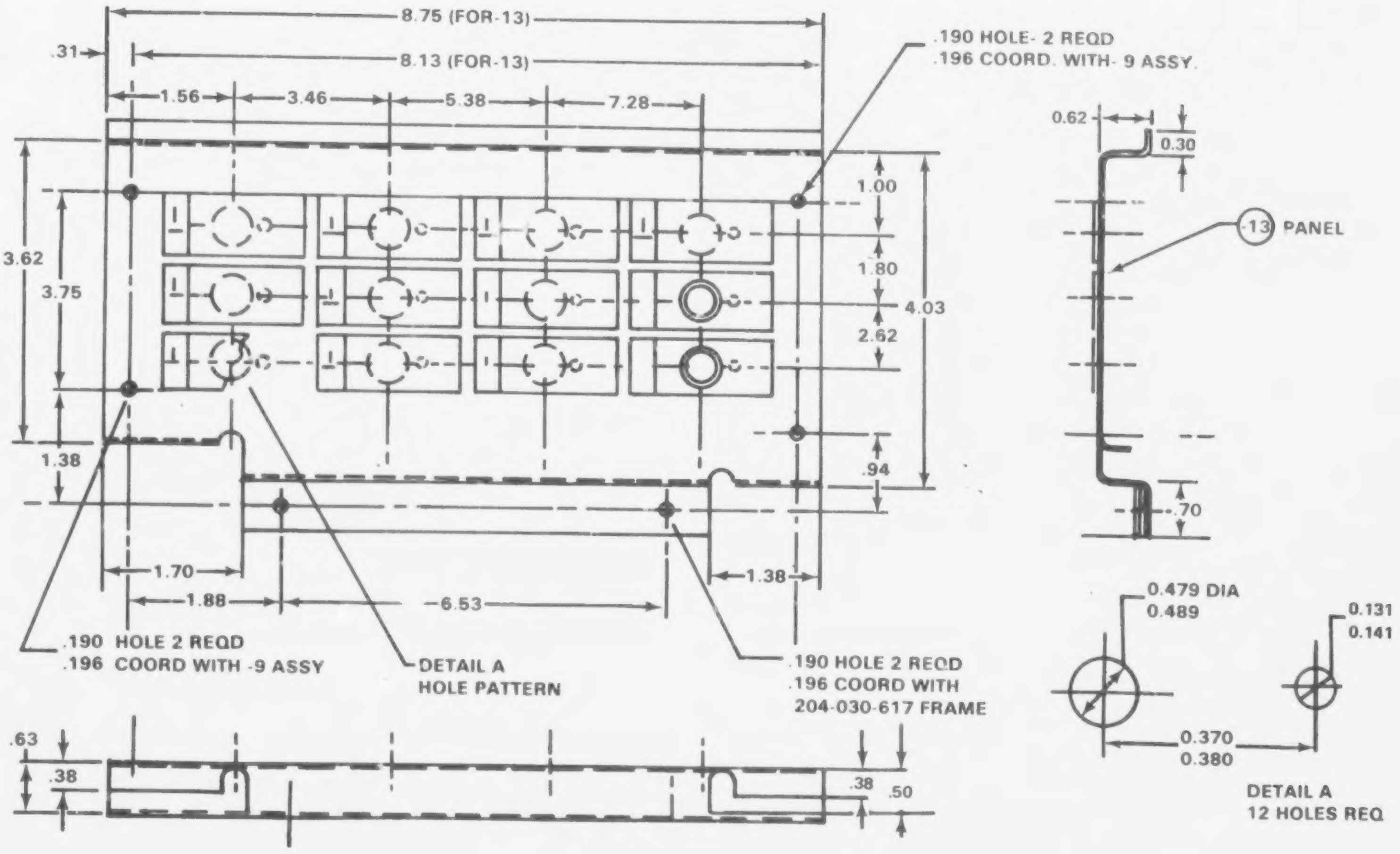

8.75 (FOR-13)
.31
8.13 (FOR-13)
1.56
3.46
5.38
7.28
.190 HOLE- 2 REQD
.196 COORD. WITH- 9 ASSY.
3.62
3.75
1.38
1.00
1.80
2.62
4.03
.94
1.70
1.88
6.53
1.38
.190 HOLE 2 REQD
.196 COORD WITH -9 ASSY
DETAIL A
HOLE PATTERN
.190 HOLE 2 REQD
.196 COORD WITH
204-030-617 FRAME
.63
.38
.38
.50
0.62
0.30
13 PANEL
.70
0.479 DIA
0.489
0.131
0.141
0.370
0.380
DETAIL A
12 HOLES REQ

Figure D-305. Part Number 204-075-177-13 PANEL
Fabricate from: NSN 9353-00-086-9729
Material: 2024 AL ALY Federal Specification QQ-A-362, T3
0.032 Inch Thick, 6.8 Inch Wide, 9.3 Inch Long

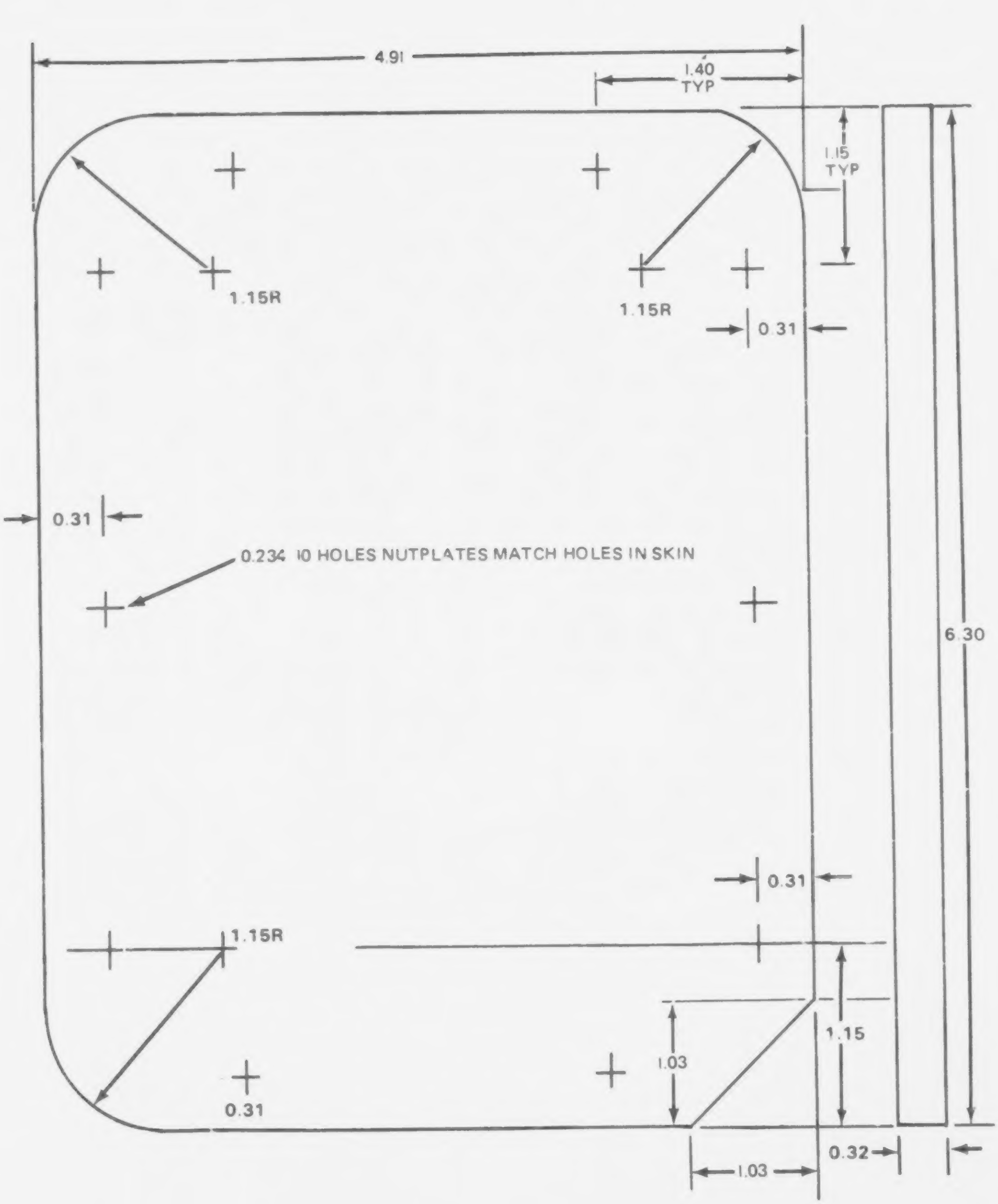

4.91
1.40
TYP
1.15
TYP
1.15R
1.15R
0.31
0.31
0.234 10 HOLES NUTPLATES MATCH HOLES IN SKIN
6.30
0.31
1.15R
1.15
1.03
0.31
1.03
0.32

**Figure D-306.** Part Number: 205-030-007-347 DOOR
Fabricate from: NSN 9535-00-086-9729
Material: 2024 AL ALY, Federal Specification QQ-A-250/5 T13, 0.032 Inch Thick, 5.5 Inch Wide, 6.8 Inch Long

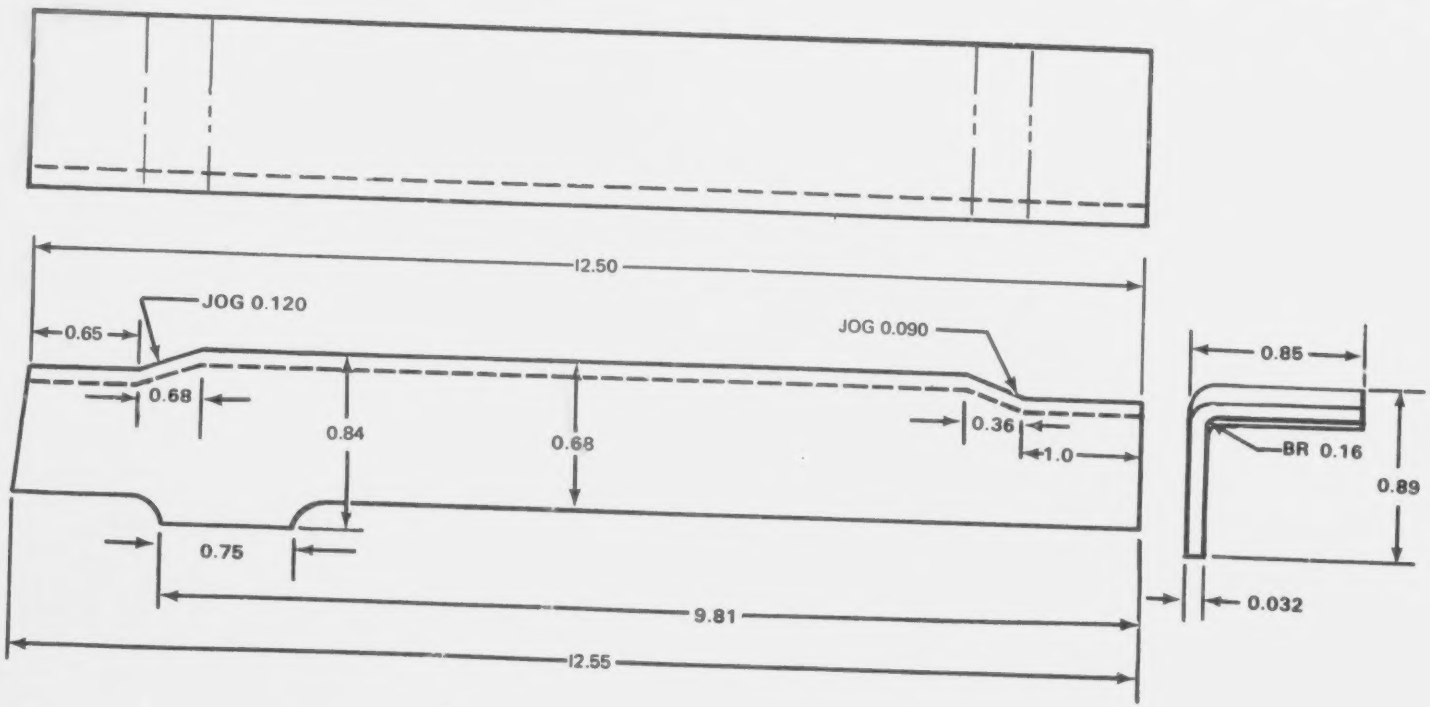

12.50
JOG 0.120
0.65
0.68
0.84
0.68
JOG 0.090
0.36
1.0
0.75
9.81
12.55
0.85
BR 0.16
0.89
0.032

**Figure D-307.**

| | |
|---|---|
| Part Number: | 205-030-163-25 ATTACHMENT |
| Fabricate from: | NSN 9535-00-086-9860 |
| Material: | 7075 AL ALY, Federal Specificiation QQ-A-250/13 TO, 0.032 Inch Thick, 2.5 Inch Wide, 13.2 Inch Long |

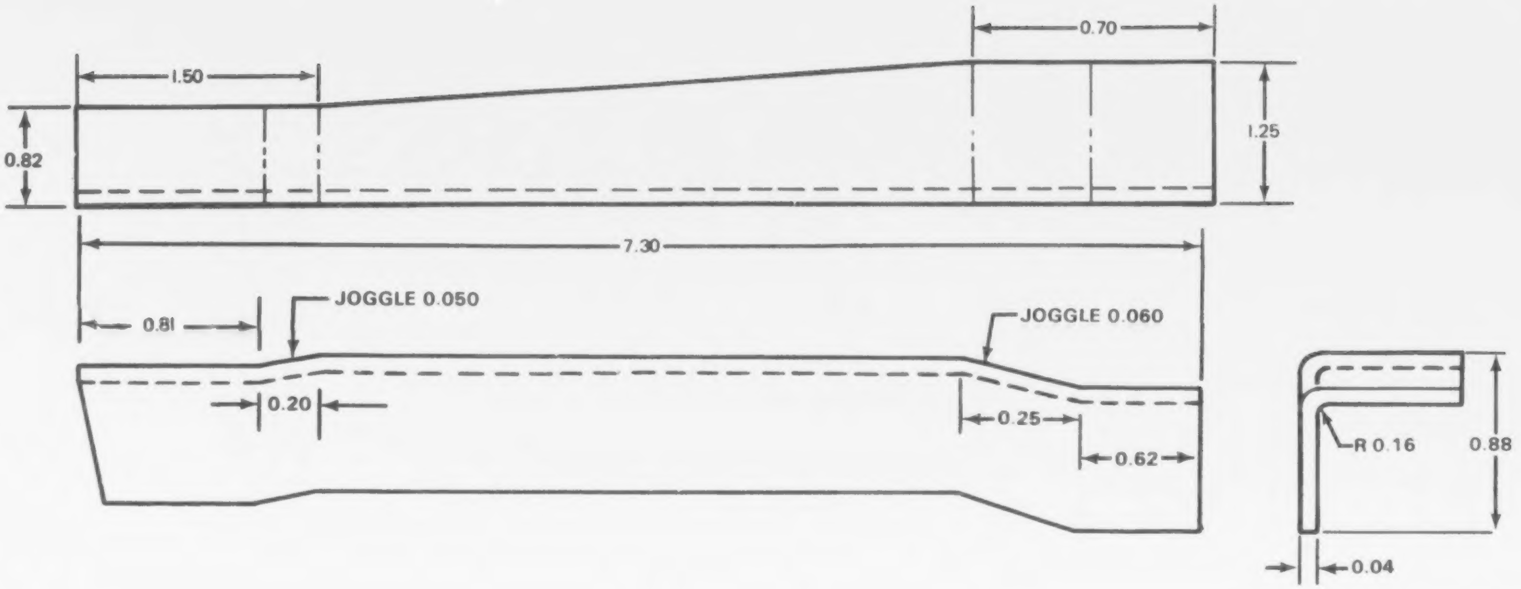

1.50
0.70
0.82
1.25
7.30
JOGGLE 0.050
JOGGLE 0.060
0.81
0.20
0.25
0.62
R 0.16
0.88
0.04

**Figure D-308.**

| | |
|---|---|
| Part Number: | 205-030-163-125 ATTACHMENT |
| Fabricate from: | NSN 9535-00-086-9860 |
| Material: | 2024 AL ALY, Federal Specification QQ-A-250/5 T3, 0.040 Inch Thick, 3.2 Inch Wide, 8.3 Inch Long |

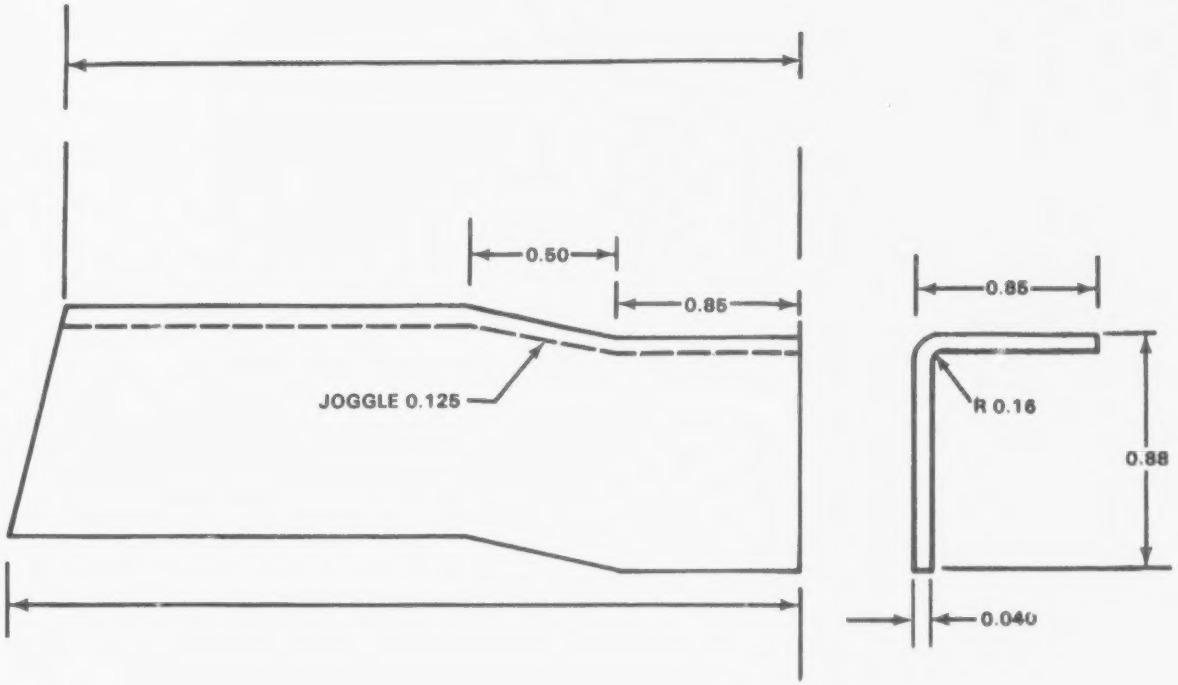

0.50
0.85
JOGGLE 0.125
0.85
R 0.16
0.88
0.040

**Figure D-309.** **Part Number:** 205-030-163-129 ATTACHMENT
**Fabricate from:** NSN 9535-00-084-4551
**Material:** 2024 AL ALY Federal Specification QQ-A-250/5 T3, 0.040 Inch Thick, 2.2 Inch Wide, 4.2 Inch Long

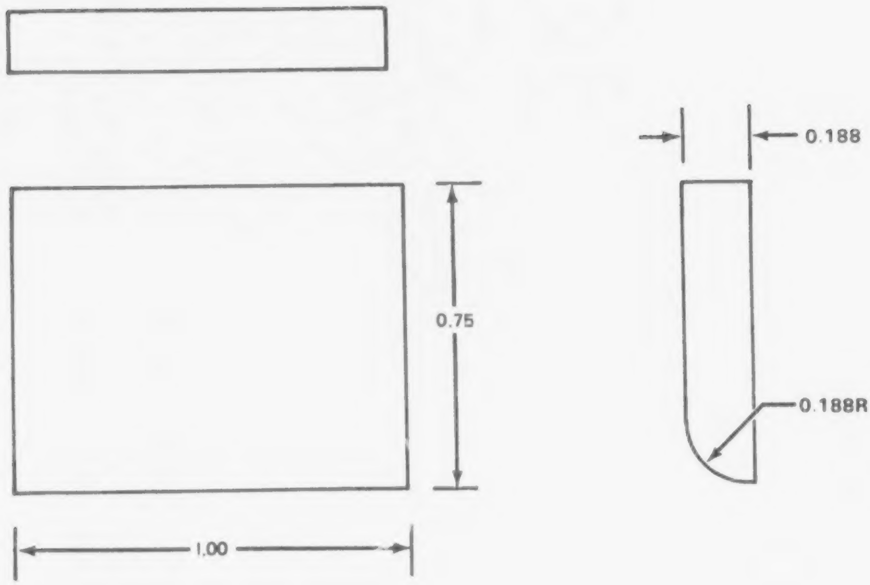


Figure D-310. Part Number: 205-030-163-231 RADIUS BLOCK
Fabricate from: 9535-00-084-4516
Material: 2024 AL ALY, Federal Specification QQ-A-250/5 T3, 0.188 Inch Thick, 1.5 Inch Wide, 1.5 Inch Long

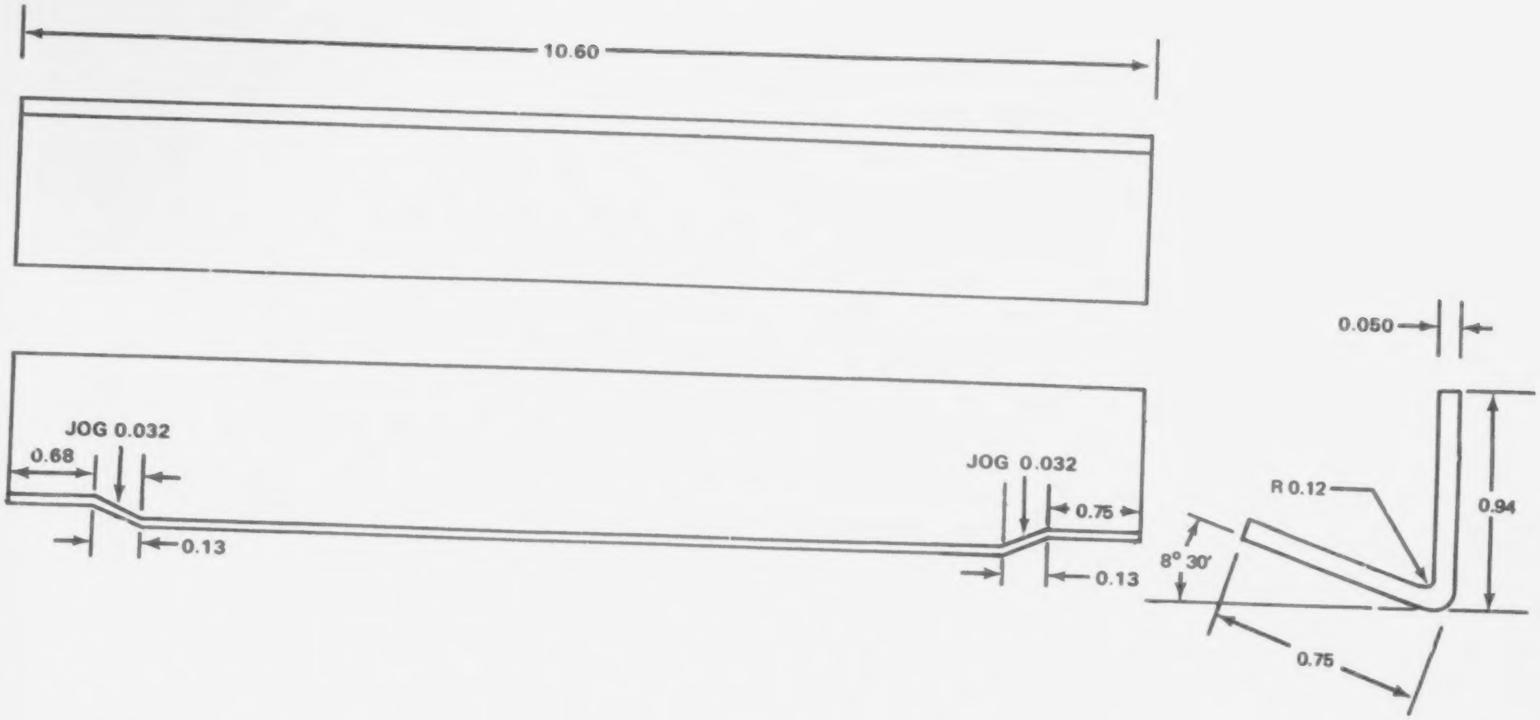
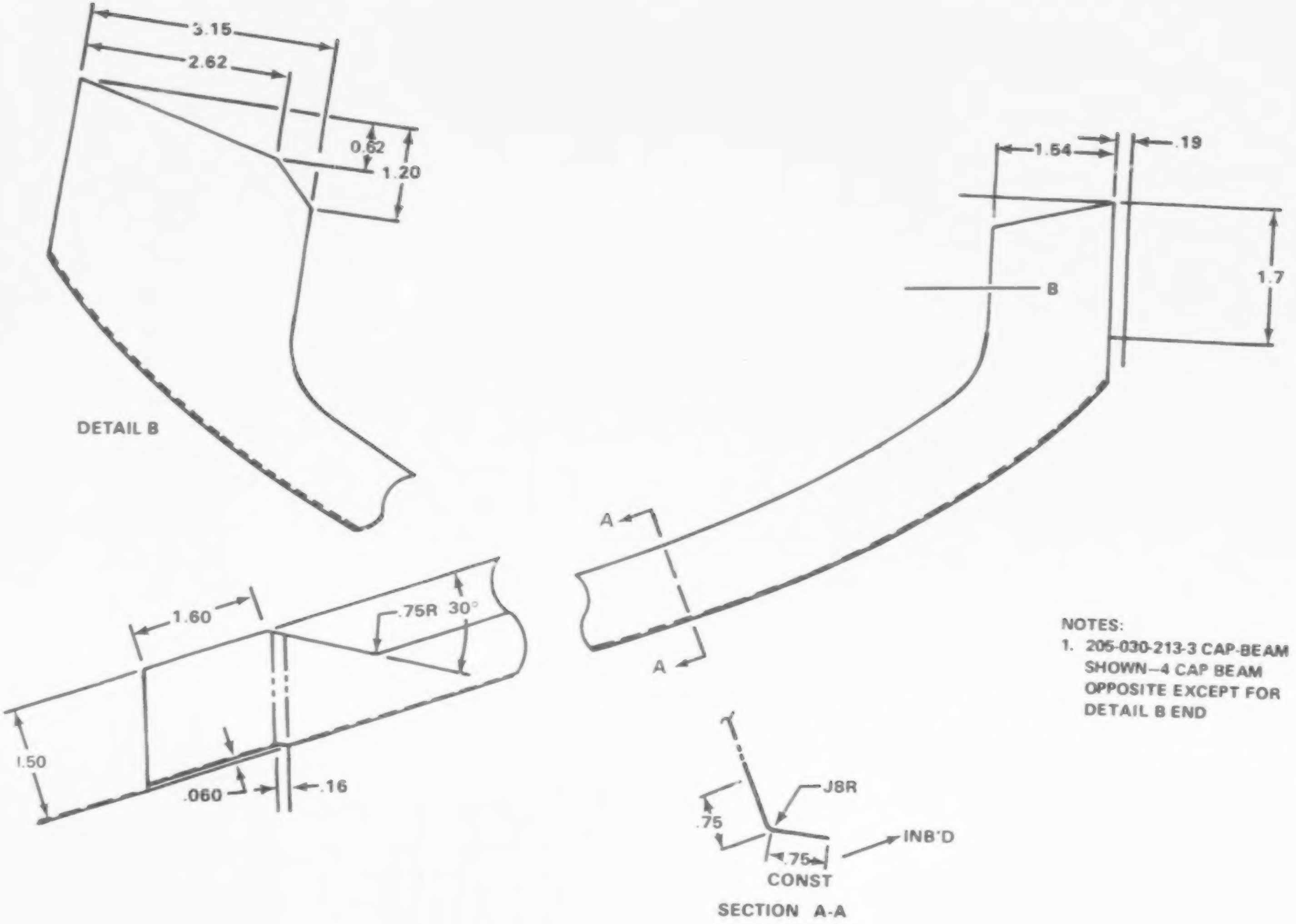
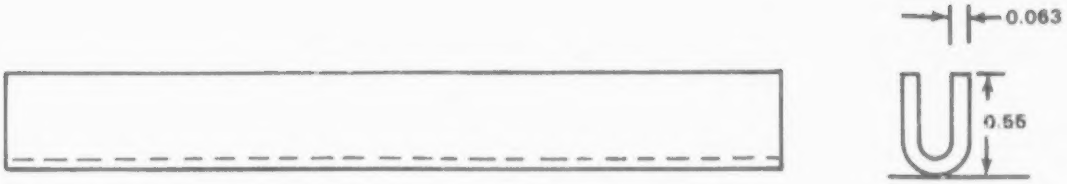

10.60
0.050
JOG 0.032
0.68
0.13
JOG 0.032
0.75
0.13
R 0.12
0.94
8° 30'
0.75

Figure D-311. Part Number 205-030-163-329 STIFFENER
Fabricate from: NSN 9535-00-
Material: 7075 AL ALY, Federal Specification QQ-A-250/13 TEMP 0 To T6
0.050 Inch Thick, 2.5 Inch Wide, 11.2 Inch Long


3.15
2.62
0.62
1.20
DETAIL B
1.54
.19
1.7
B
A
A
1.60
.75R
30°
1.50
.060
.16
.75
J8R
INB'D
.75
CONST
SECTION A-A

NOTES:
1. 205-030-213-3 CAP-BEAM SHOWN–4 CAP BEAM OPPOSITE EXCEPT FOR DETAIL B END

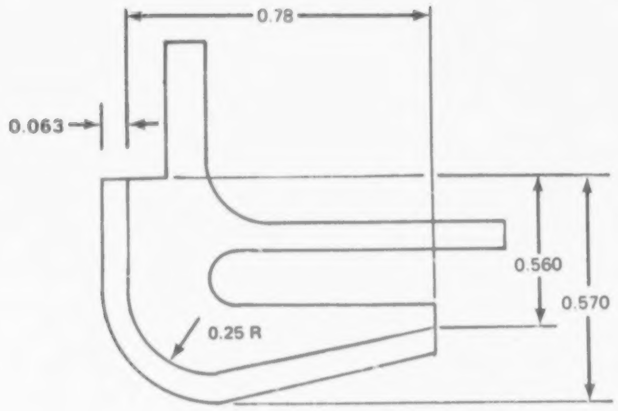
Figure D-312. Part Number 205-030-213-4 CAP-BEAM
Fabricate From: NSN 9535-00
Material: 2024 AL ALY, Federal Specification QQ-A-362-To, 0.032 Inch Thick, 3.4 Inch Wide, 40.0 Inch Long



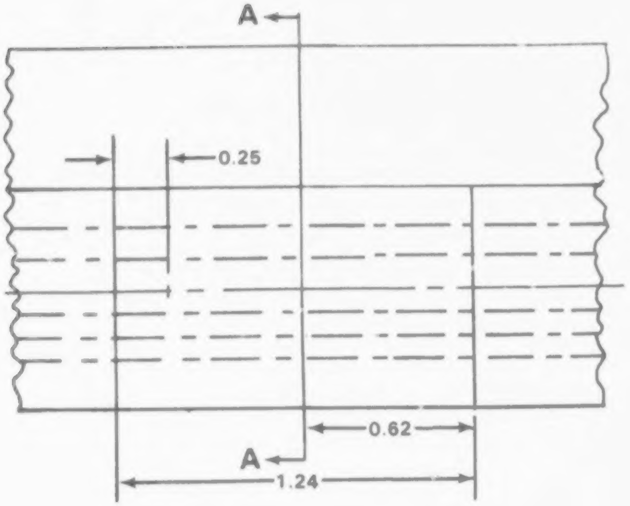
NOTE:

1. 205-030-385-17 GUIDE MAKE FROM FABRIC #6112 PURCHASE FROM SUMMER AND MACA GLASS MACHINERY CO. CHICAGO, ILL. CODE IDENT 55899
2. 205-030-385-17 GUIDE SHOWN —18 GUIDE OPPOSITE
3. CUT CLOTH TO DESIRED LENGTH 92.5 INCHES
4. BOND GUIDE TO TRACK WITH PROSEAL 584 ADHESIVE

| | | |
|---|---|---|
| Figure D-313. | Part Number | 205-030-385-18 GUIDE |
| | Fabricate from: | NSN 8305-01-031-0130 |
| | Material: | Weather Strip; Cloth Fabric 0.063 Inch Thick, 1.25 Inch Wide, 32.5 Inch Long |



Section A-A



NOTES:

1. RIVET -21 DOUBLER TO TRACK WITH CR2248-4 RIVETS
2. BOND -21 DOUBLER TO TRACK WITH EPON 934 ADHESIVE

**Figure D-314.** Part Number 205-030-385-21 DOUBLER
Fabricate from: NSN 9515-00-234-7953
Material: Metal Steel Corrosion Resistant 18-8 Rolled, Annealed Federal Specification MIL-S-5059 Comp 301, 0.063 Inch Thick, 1.8 Inch Wide, 2.0 Inch Long

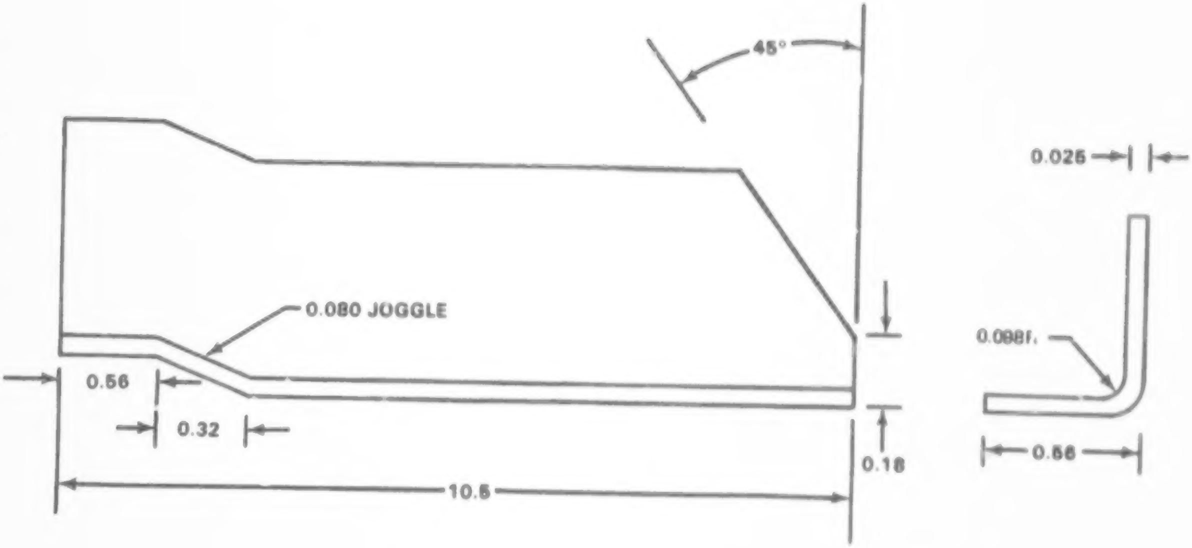
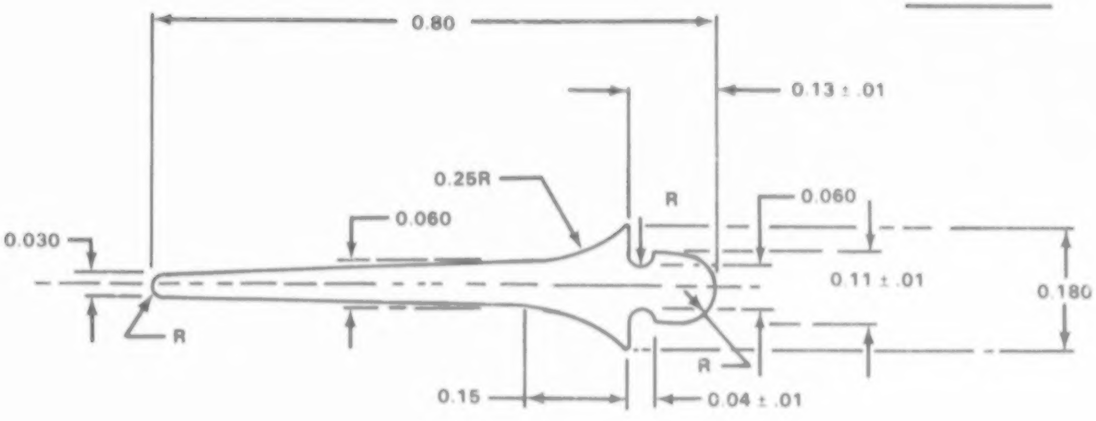

45°
0.080 JOGGLE
0.56
0.32
10.5
0.18
0.025
0.088r.
0.56

Figure D-315. Part Number: 205-030-407-121 ANGLE
Fabricate from: 9535-00-167-2278
Material: 2024 AL ALY Federal Specification QQ-A-250/5,T3, 0.025 Inch Thick, 1.2 Inch Wide, 11.0 Inch Long

ACTUAL SIZE


0.80
0.13 ± .01
0.25R
R
0.060
0.060
0.030
0.11 ± .01
0.180
R
R
0.15
0.04 ± .01

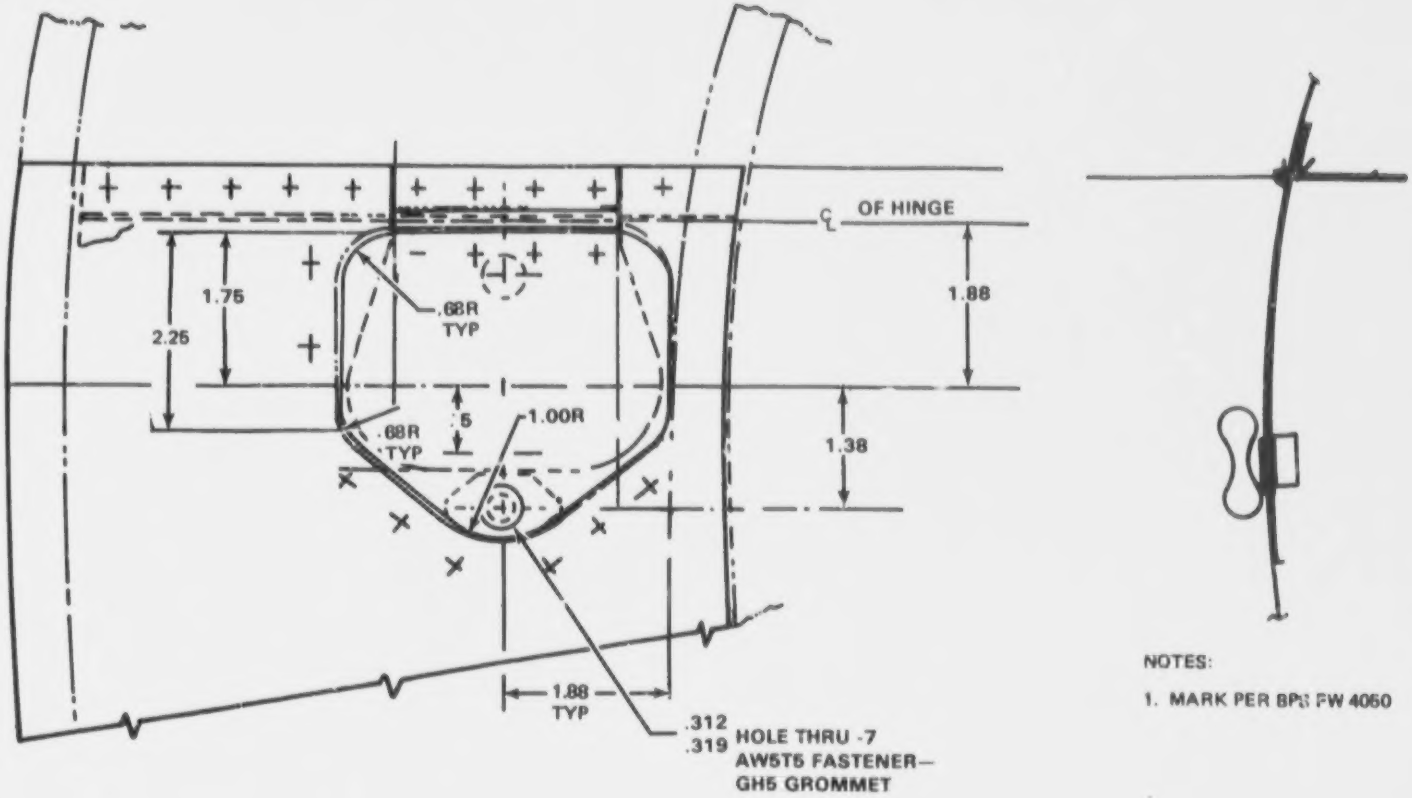
FOUR TIMES SIZE

NOTES:

1. PART NO. 205-030-407-317 SEAL MAKE FROM BELL STD 110-032-1 MATERIAL 51.2 INCHES LONG
2. PURCHASE FROM BELL HELICOPTER OR BURKE RUBBER CO., 2250 SOUTH TENTH, SAN JOSE, CALIFORNIA.

**Figure D-316.**

| | |
|---|---|
| **Part Number** | **205-030-407-317 SEAL** |
| **Fabricate from:** | **NSN 5340-00-949-8281** |
| **Material:** | **Extruded Silicone Rubber, Bell Specification 299-947-095, Color Black or Grey** |


℄ OF HINGE
1.75
2.25
.68R TYP
.68R TYP
.5
1.00R
1.88
1.38
1.88 TYP
.312
.319 HOLE THRU -7
AW5T5 FASTENER—
GH5 GROMMET

NOTES:

1. MARK PER BPS FW 4050

Figure D-317. **Part Number** 205-030-539-7 DOOR
**Fabricate from:** NSN 9535-00-167-2278
**Material:** 2024 AL ALY, Federal Specification QQ-A-250/5, T3, 0.025 Inch Thick, 4.0 Inch Wide, 4.5 Inch Long

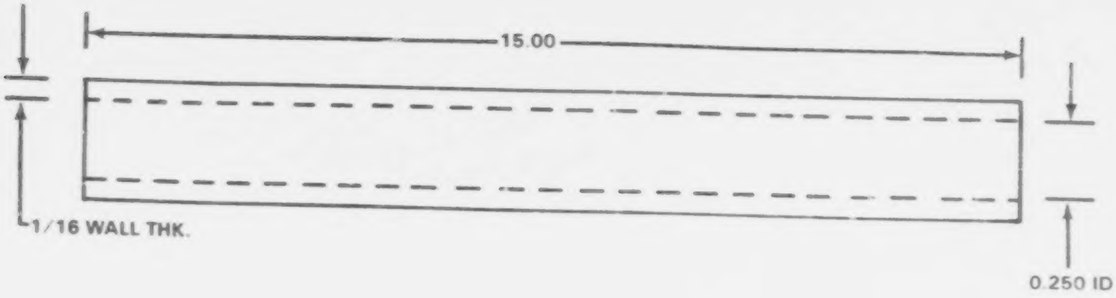
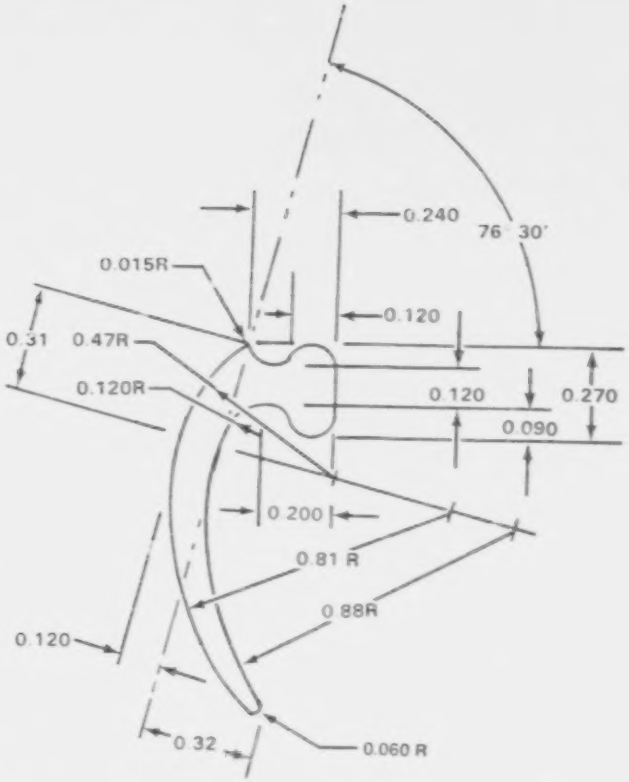


Figure D-318. **Part Number** 205-030-611-15 TUBE
**Fabricate from:** NSN 4720-00-235-5455
**Material:** Hose, Rubber Synthetic, Federal Specification MIL-R-6855, Class V 1/4 ID, 1/16 Wall Thk. 15.0 Inch Long

best copy available

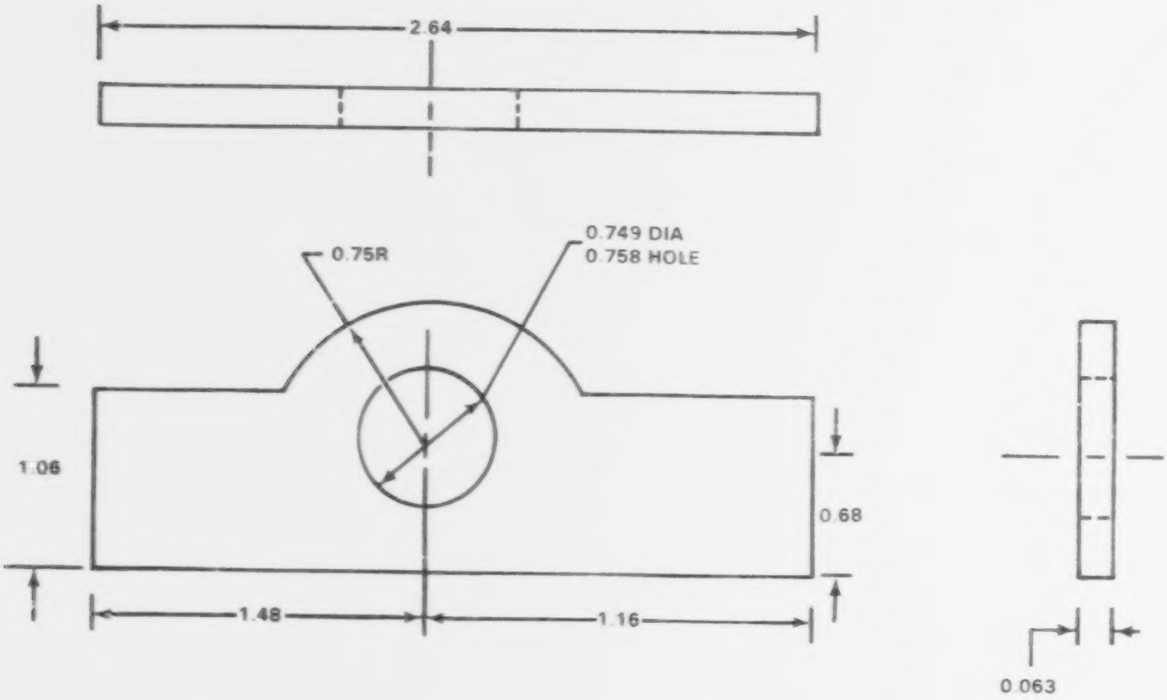
Reproduced from poor document.


0.240
76° 30'
0.015R
0.120
0.31
0.47R
0.120R
0.120
0.270
0.090
0.200
0.81 R
0.88R
0.120
0.32
0.060 R

NOTES:

1. PART NO. 205-030-615-93 AND -94 MAKE FROM BELL STD 110-015-1 MATERIAL BOTH ITEMS 98.00 INCH LONG.
2. PURCHASE FROM BELL HELICOPTER OR BURKE RUBBER CO. 2250 SOUTH TENTH, SAN JOSE, CALIFORNIA

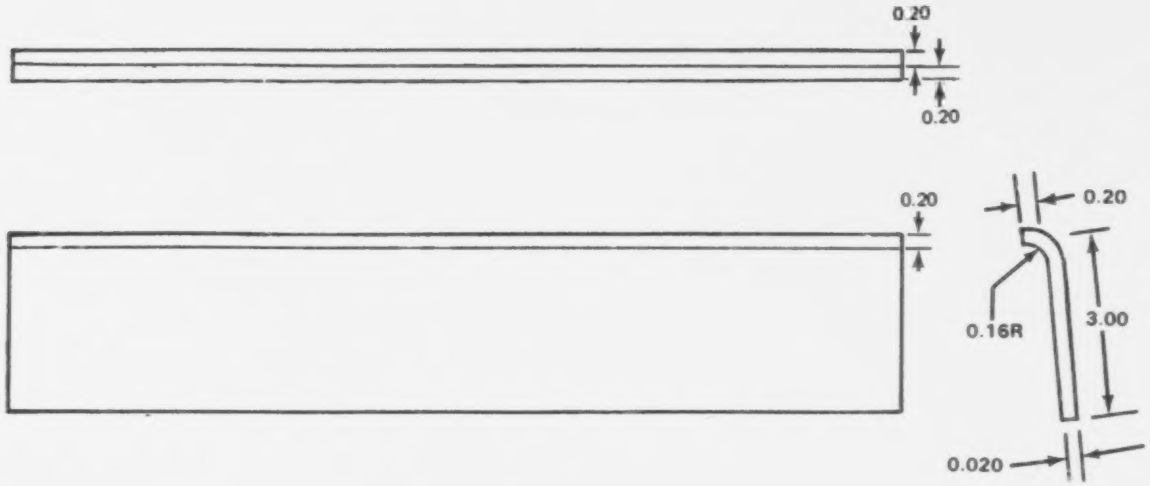
Figure D-319. Part Number 205-030-615-93-SEAL
205-030-615-94-SEAL
Fabricate from: 9390-00-877-6254
Material: Extrusion-Rubber, Door Seal Bell Specification 299-947-095 Color Black or Grey


2.64
0.75R
0.749 DIA
0.758 HOLE
1.06
0.68
1.48
1.16
0.063

NOTES:

LOCATE CENTER HOLE TO MATCH
205-031-669-141, AND -143 SUPPORT

| Figure D-320. | Part Number | 205-031-669-137 DOUBLER |
|---|---|---|
| | Fabricate from: | NSN 9535-00-554-1417 |
| | Material: | 2024 AL ALY Federal Specification QQ-A-250/5, T3, 0.063 Inch Thick, 2.0 Inch Wide, 3.4 Inch Long |



NOTES:

205-030-711-27 CAP STRIP SHOWN
205-030-711-28 CAP STRIP OPPOSITE

| | | |
|---|---|---|
| **Figure D-321.** | Part Number: | 205-030-711-27 CAP STRIP<br>205-030-711-28 CAP STRIP |
| | Fabricate from: | NSN 9535-00-232-7535 |
| | Material: | 7075 AL ALY Federal Specification QQ-A-250/13, T6, 0.020 Inch Thick, 3.2 Inch Wide, 16.8 Inch Long. |

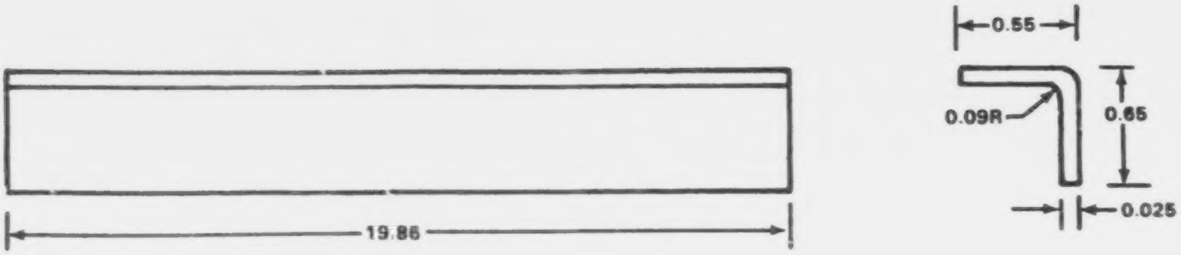
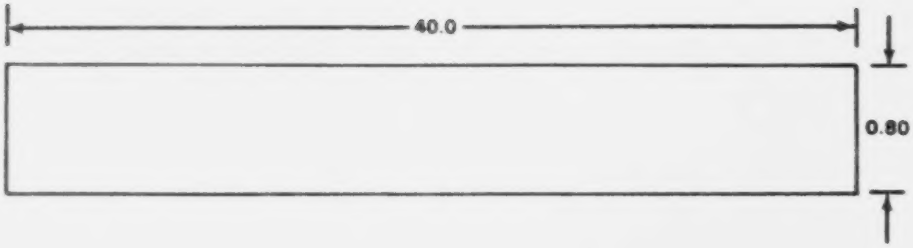


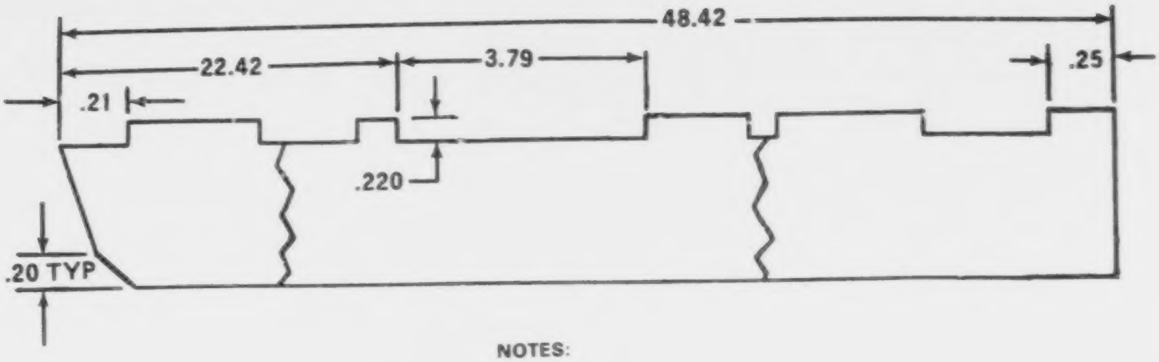
Figure D-322. Part Number 205-030-729-49 SUPPORT COVER
Fabricate from: NSN 9535-00
Material: 2024 AL ALY, Federal Specification QQ-A-250/5, T3, 0.025 Inch Thick, 1.7 Inch Wide, 20.4 Inch Long



NOTES:

1. PART NO. 205-030-819-21 MAKE FROM ANTI-CHAFFING TAPE #366, 0.80 INCH WIDE, 40.0 INCH LONG. PURCHASE FROM MINNESOTA MINING AND MFG COMP ST PAUL, MINN. CODE IDENT 76381
2. ALTERNATE MATERIAL FOR ANTI-CHAFFING TAPE #549-3½ MILLS PURCHASE FROM MINNESOTA MINING AND MFG. COMP, ST PAUL, MINN. CODE IDENT 76381

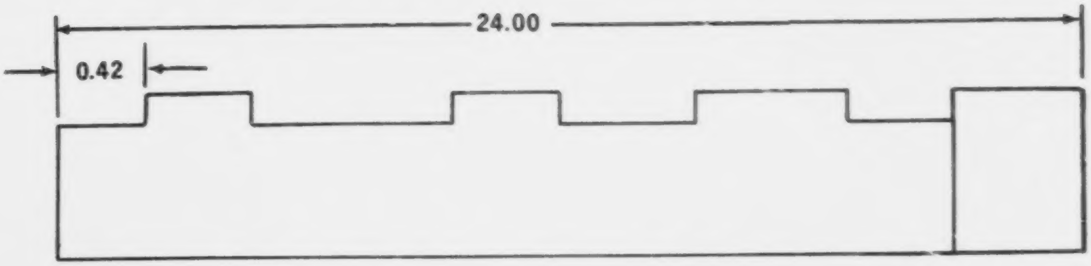
Figure D-323. Part Number 205-030-819-21 STRIP-CHAFFING
Fabricate from: NSN
Material: TAPE, ANTI-CHAFFING #366, 0.80 Inch Wide, 40.0 Inch Long



NOTES:

1. 205-030-846-33S HINGE MAKE FROM MS20001PH4-7200 LEAF BUTT HINGE MATERIAL
2. CUT HINGE MATERIAL TO PROPER LENGTH 49.00 INCH LONG
3. DESIGNATION S IS SYNTHETIC PART NO.

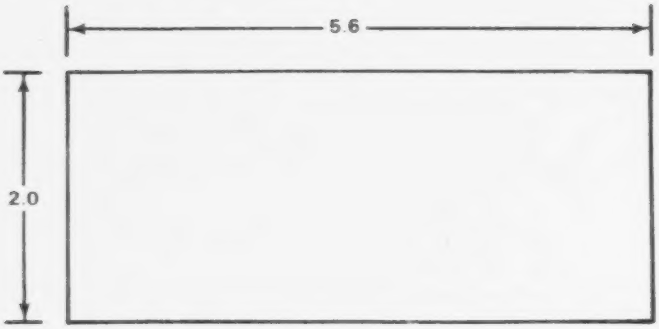
**Figure D-324.** Part Number: 295-030-846-33S HINGE
Fabricate from: NSN 5340-00-949-8274
Material: HINGE, BUTT AL ALY Anodized 0.056 Inch Thick, 0.495 Inch Wide, 72.00 Inch Long



NOTES:

1. PART NO. 205-030-850-21 HINGE HALF MAKE FROM MS20257HP2-7200 STOCK
2. CUT HINGE MATERIAL TO THE REQUIRED LENGTH 24.00 INCH LONG

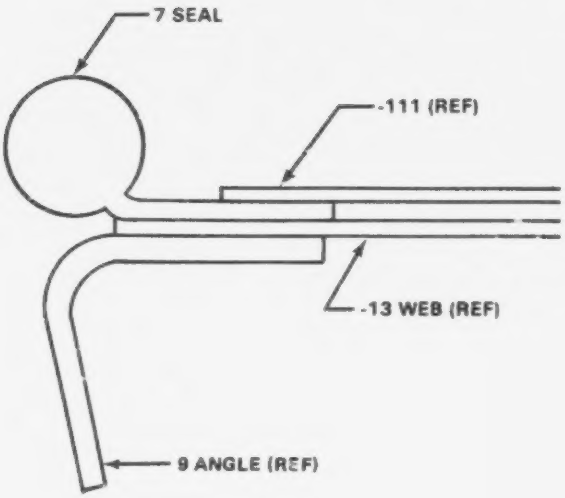
**Figure D-325.** Part Number: 205-030-850-21 Hinge Half
Fabricate from: NSN 5340-00-993-1461
Material: Leaf, Butt Hinge - Aluminum Alloy Anodized, 0.040 Inch Thick, 0.531 Inch Wide, 72.00 Inch Long



NOTES:

1. PART NO. 205-060-826-79 GRIP MAKE FROM SCOTCH-TRED COLOR GREY PURCHASE FROM MINNESOTA MINING AND MFG. CO. ST. PAUL, MINN. (CODE IDENT NO 76381)
2. ATTACH GRIP MATERIAL TO COWL ASSY. HAND HOLD.

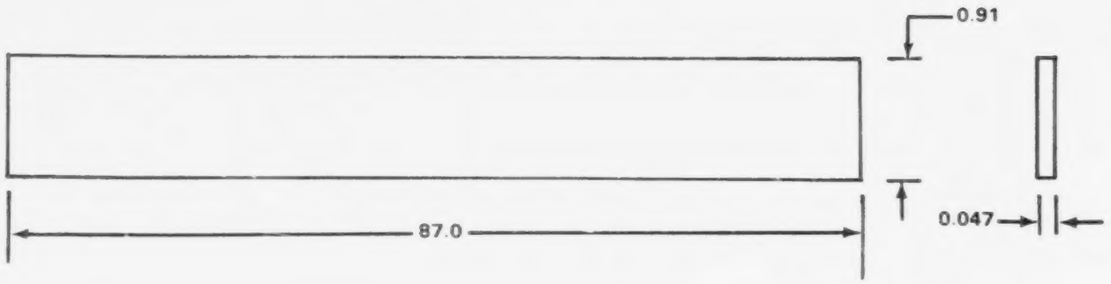
Figure D-326. Part Number 205-060-826-79 GRIP
Fabricate from: NSN 7220-00-205-0390
Material: Cloth Material, Adhesive Backing One Side, Abrasive Material Other Side, Scotch Tred Color Grey


-7 SEAL
-111 (REF)
-13 WEB (REF)
9 ANGLE (REF)

NOTES:

1. 205-060-909-7 SEAL MARK FROM
   ⅜ DIA BULB, TADPOLE SEAL, FIREWALL
   1.2 INCH WIDE, 87.0 INCH LONG
2. PURCHASE SEAL FROM JOHNS-MANSVILLE
   COMP, NEW YORK N.Y. CODE IDENT 92789

| | | |
|---|---|---|
| **Figure D-327.** | **Part Number** | **205-060-909-7 SEAL** |
| | **Fabricate from:** | **NSN 9390-00-851-9178** |
| | **Material:** | **SEAL, Bulb ⅜ Inch Dia, Firewall Seal** |

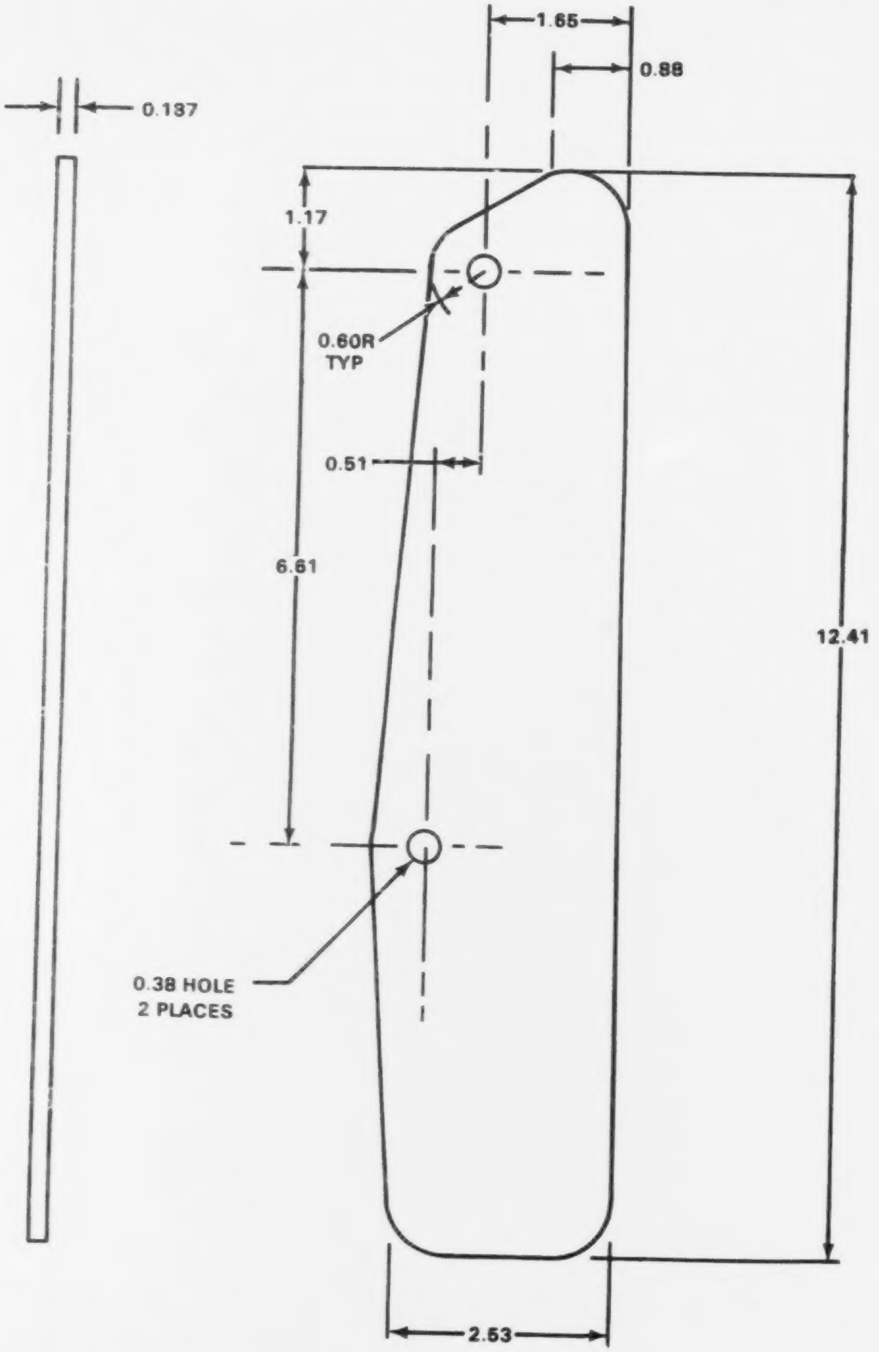


NOTES:

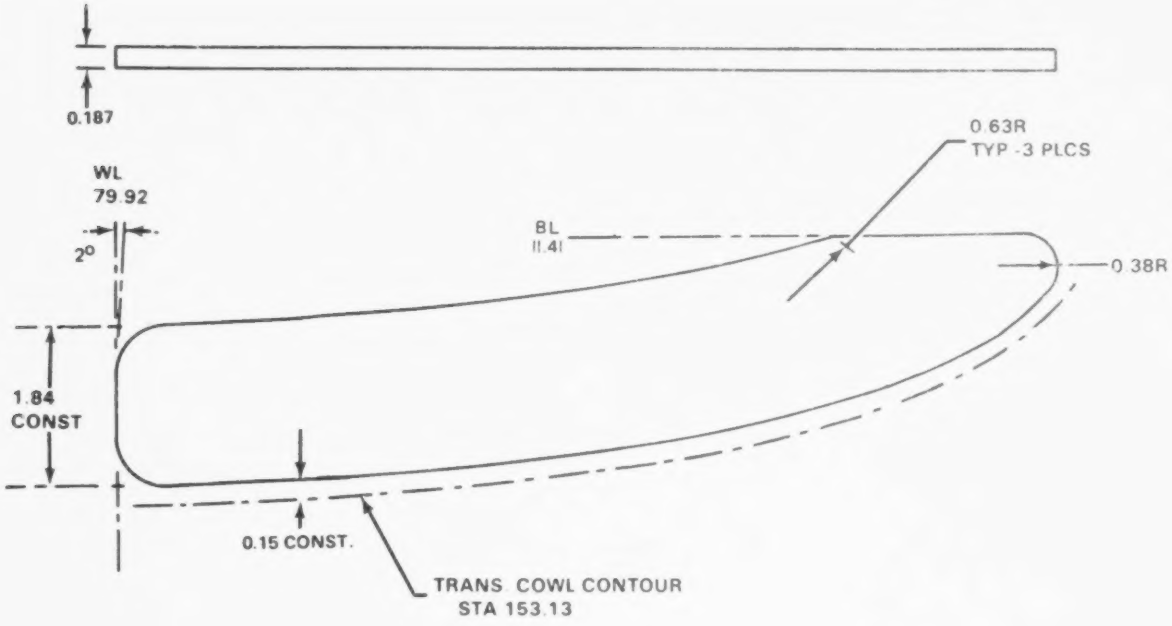
1. MARK PER BPS FW 4050
2. PURCHASE FROM JOHNS-MANSVILLE PRODUCTS CO., NEW YORK, N.Y. CODE IDENT 82789
3. SPECIAL ASBESTOS MATERIAL

| THICKNESS | SIZE | STYLE |
|---|---|---|
| 0.047 INCH | 1.9 X 87.0 INCH | # 89 |

| Figure D-328. | Part Number | 205-060-909-17 GASKET |
|---|---|---|
| | Fabricate from: | NSN 5330-00-938-1719 |
| | Material: | GASKET, Asbestos Material 0.047 Inch Thick, 1.9 Inch Wide, 87.0 Inch Long |


1.65
0.88
0.187
1.17
0.60R
TYP
0.51
6.61
12.41
0.38 HOLE
2 PLACES
2.53

| Figure D-329. | Part Number: | 205-061-232-1 SEAL |
|---|---|---|
| | Fabricate from: | NSN 9320-00-456-1884 |
| | Material: | Closed Cell Medium Sponge Federal Specification AMS-3195, 0.187 Inch Thick, 3.2 Inch Wide, 13.0 Inch Long |


0.187
WL
79.92
2°
1.84
CONST
0.15 CONST.
TRANS. COWL CONTOUR
STA 153.13
BL
11.41
0.63R
TYP -3 PLCS
0.38R

| | | |
|---|---|---|
| **Figure D-330.** | **Part Number:** | 205-061-234-1 SEAL FORWARD |
| | **Fabricate from:** | NSN 9320-00-456-1884 |
| | **Material:** | Closed Cell Medium Sponge, Federal Specification AMS-3195, 0.187 Inch Thick, 3.0 Inch Wide, 13.5 Inch Long |

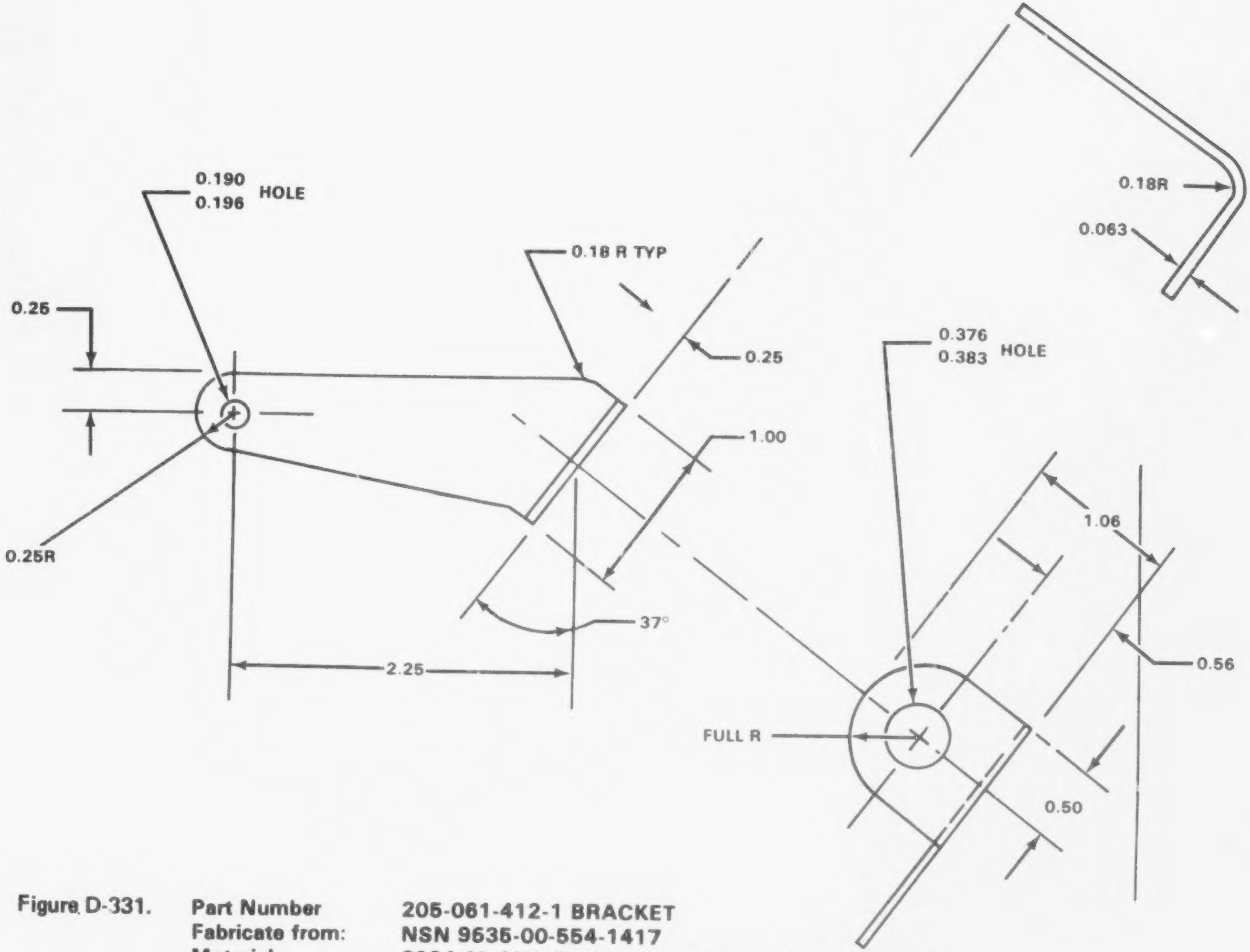
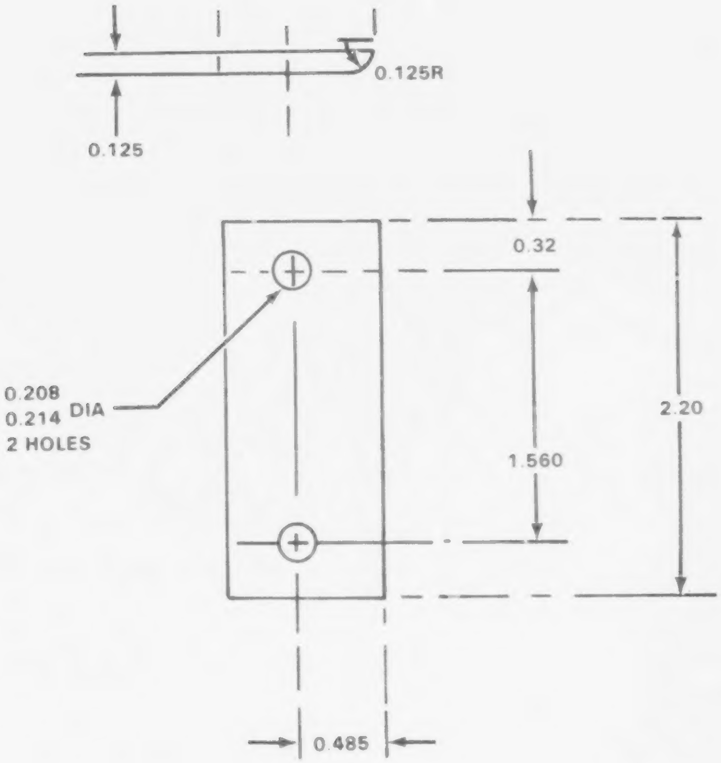

0.18R
0.063
0.190
0.196 HOLE
0.18 R TYP
0.25
0.25
1.00
0.25R
37°
2.25
0.376
0.383 HOLE
1.06
0.56
FULL R
0.50

Figure D-331.

| | |
|---|---|
| **Part Number** | 205-061-412-1 BRACKET |
| **Fabricate from:** | NSN 9535-00-554-1417 |
| **Material:** | 2024 AL ALY, Federal Specification QQ-A-250 5 T3,<br>0.063 Inch Thick, 2.2 Inch Wide, 4.0 Inch Long |

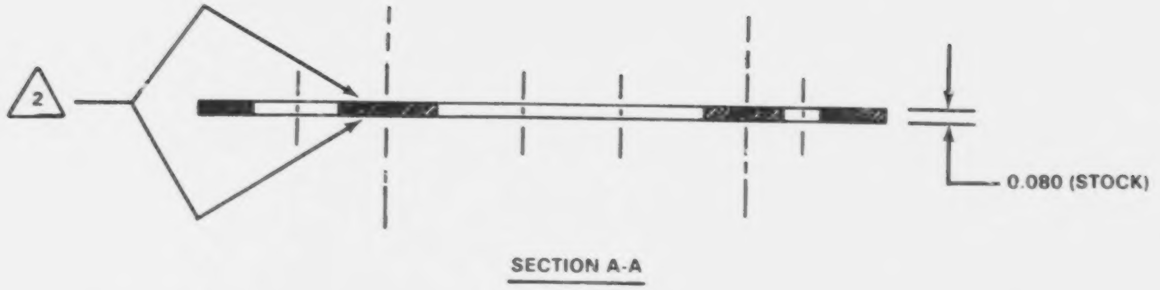

0.125R
0.125
0.32
0.208
0.214 DIA
2 HOLES
2.20
1.560
0.485

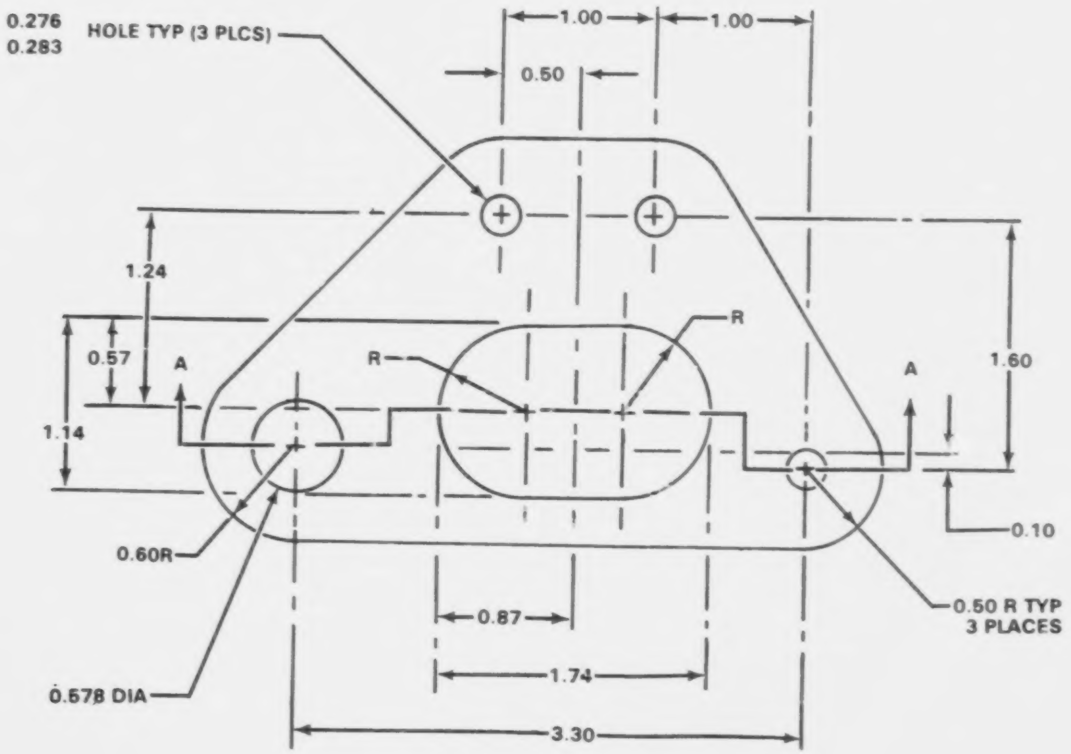
NOTES:

1. PART NO. 205-061-521-1 MAKE FROM BELL STD 20-042-3 BULK STOCK EXTRUSION
2. EXTRUSION MAY BE PURCHASED FROM:

| COMPANY | SOURCE DIE NO. |
|---|---|
| REYNOLDS ALUMINUM | 32537 |
| PIONEER ALUMINUM | PA16364 |
| HOWMET CORPORATION | T-16657 |

**Figure** D-332. **Part Number** **205-061-521-1 RADIUS BLOCK**
**Fabricate from:** **NSN 9535-00-232-0418**
**Material:** **2024 AL ALY Federal Specification QQ-A-200/3, T4, or T3510 or T3511, 0.125 Inch Thick, 0.875 Inch Wide**

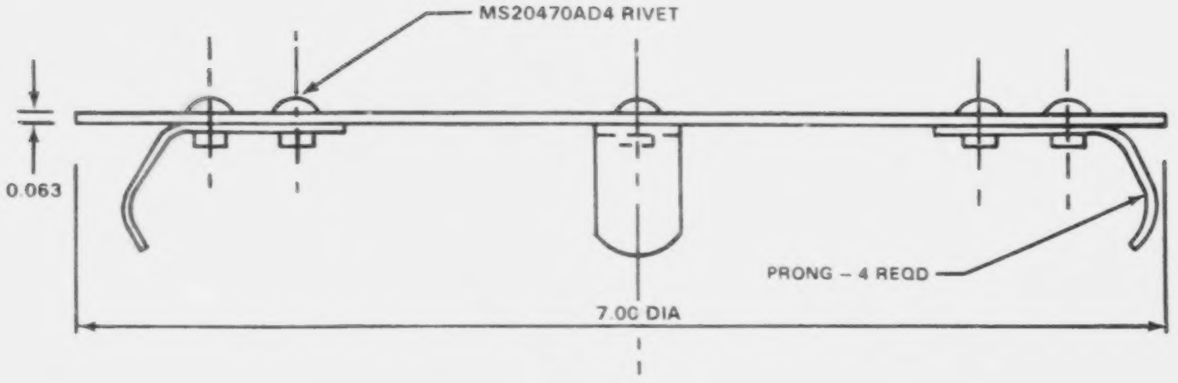

2
0.080 (STOCK)
SECTION A-A


0.276
0.283
HOLE TYP (3 PLCS)
1.00
1.00
0.50
1.24
0.57
1.14
A
R
R
A
1.60
0.10
0.60R
0.87
0.50 R TYP
3 PLACES
1.74
0.578 DIA
3.30

NOTES:

BOTH SURFACES SHALL BE FLAT WITHIN 0.005 TIR

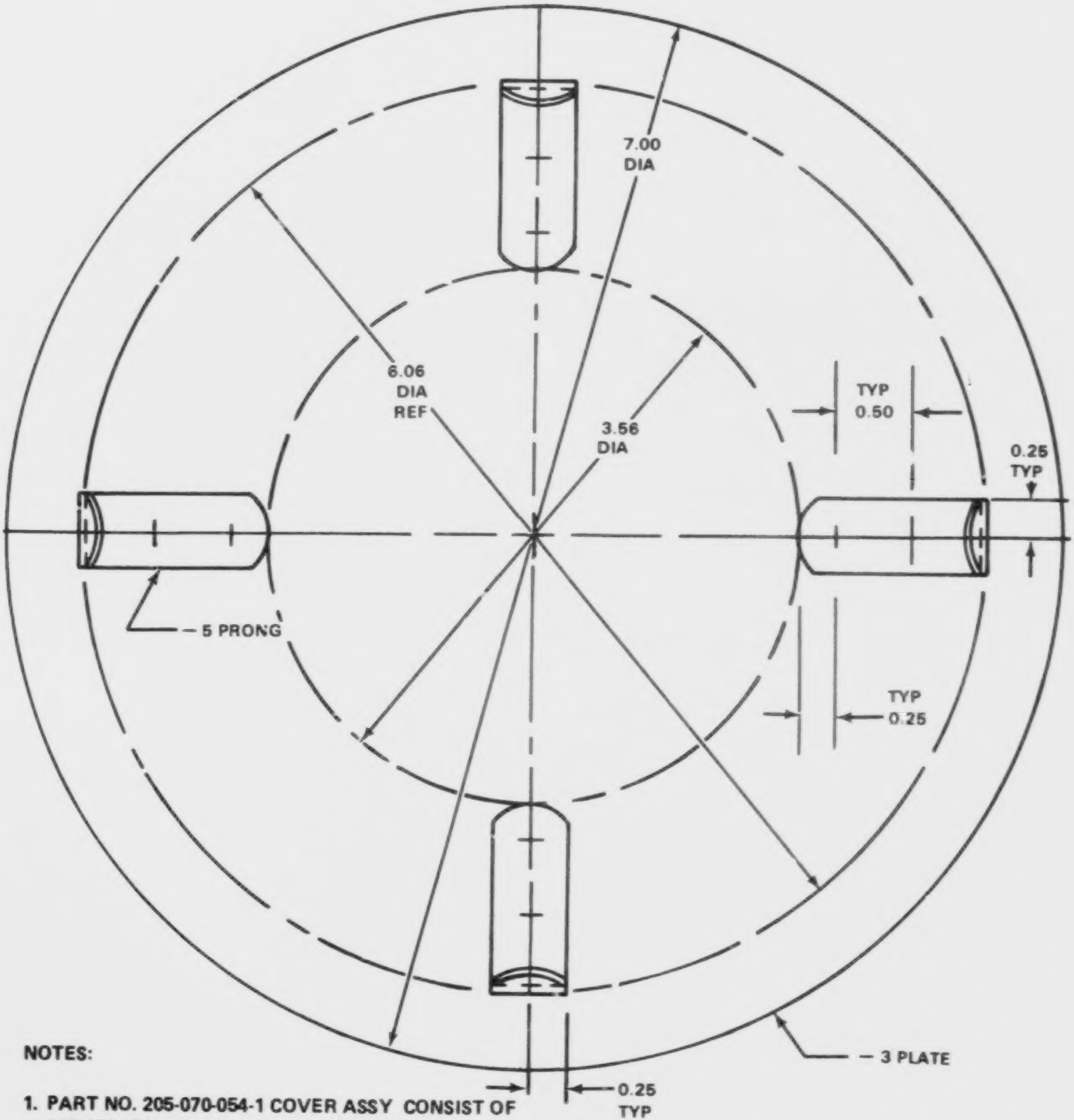
**Figure D-333.** Part Number: 205-061-643-3 PLATE
Fabricate from: NSN 9535-00-232-0398
Material: 2024 AL ALY, Federal Specification QQ-A-250/5 T3, 0.080 Inch Thick, 3.1 Inch Wide, 4.9 Inch Long


MS20470AD4 RIVET
0.063
PRONG – 4 REQD
7.00 DIA

NOTES:

ASSEMBLE 205-070-054-5 CLIP TO 205-070-054-3 PLATE

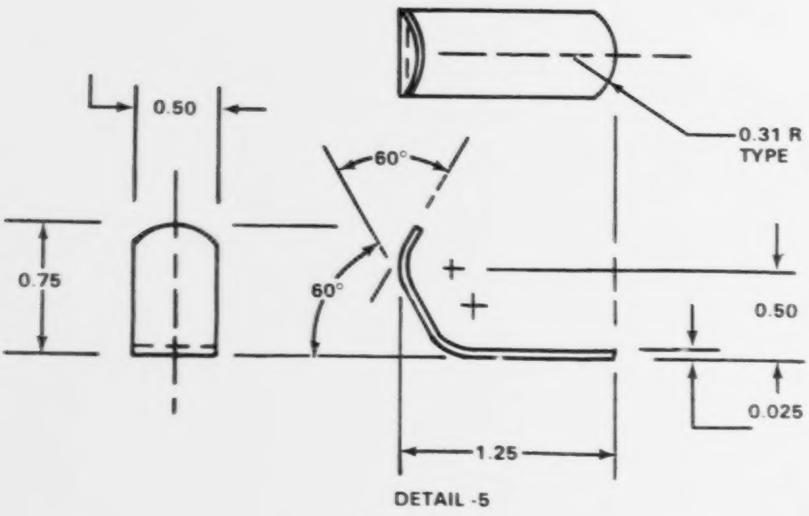
| | | |
|---|---|---|
| Figure D-334. (Sheet 1 of 3) | Part Number: | 205-070-054-1 COVER ASSY |
| | Fabricate from: | NSN 9535-00-232-0378<br>NSN 9515-00-184-8822 |
| | Material: | 2024 AL ALY, Federal Specification QQA-250/5, T3, 0.063 Inch Thick.Steel Corrosion Resistant 18-8, Federal Specification MIL-S-5059 Comp 301, 1/2 Hard, 0.025 Inch Thick |


7.00
DIA
6.06
DIA
REF
3.56
DIA
TYP
0.50
0.25
TYP
– 5 PRONG
TYP
0.25
– 3 PLATE
0.25
TYP

NOTES:

1. PART NO. 205-070-054-1 COVER ASSY CONSIST OF 205-070-054-3 PLATE AND 205-70-054-5 PRONG
2. 205-070-054-3 PLATE MAKE FROM 2025 AL ALY FEDERAL SPECIFICATION QQ-A-250/5 T3, 0.063 INCH THICK, 7.5 INCH WIDE, 7.5 INCH LONG (NSN 9535-00-232-0478)
3. BREAK ALL SHARP EDGES AND MARK PER BPS FW 4050

Figure D-334. (Sheet 2 of 3)



BEND RADII -.25
BEND ANGLE TOL. ± 5°

NOTES:

1. PART NO. 205-070-054-5 PRONG MAKE FROM STEEL, CORROSION RESISTANT 18-8, FEDERAL SPECIFICATION MIL-S-5959 COMP 301, ½ HARD (NSN 9515-00-184-8822, 0.025 INCH THICK, 1.0 INCH WIDE, 2.3 INCH LONG

2. BREAK ALL SHARP EDGES

Figure D-334. (Sheet 3 of 3)

NOTES:

1. PART NO. 205-072-038-1 INSTRUMENT PANEL ASSY CONSIST OF THESE PARTS.

| PART NO. | DESCRIPTION | SHEET |
|---|---|---|
| 205-072-038-3 | SIDE | 2 |
| 205-072-038-5 | END | 3 |
| 205-072-038-7 | END | 4 |
| 205-072-038-9 | PANEL | 5 |
| 205-072-038-11 | HINGE HALF | 6 |
| 205-072-038-13 | HINGE PIN | 6 |

2. ASSEMBLE PARTS TO MAKE THE COMPLETE UNIT.

Figure D-335. (Sheet 1 of 7) **Part Number:** **205-072-038-1 INSTRUMENT PANEL ASSY**

**Fabricate from:** **See Part Number Sheets**
**Material:** **See Part Number Sheets**

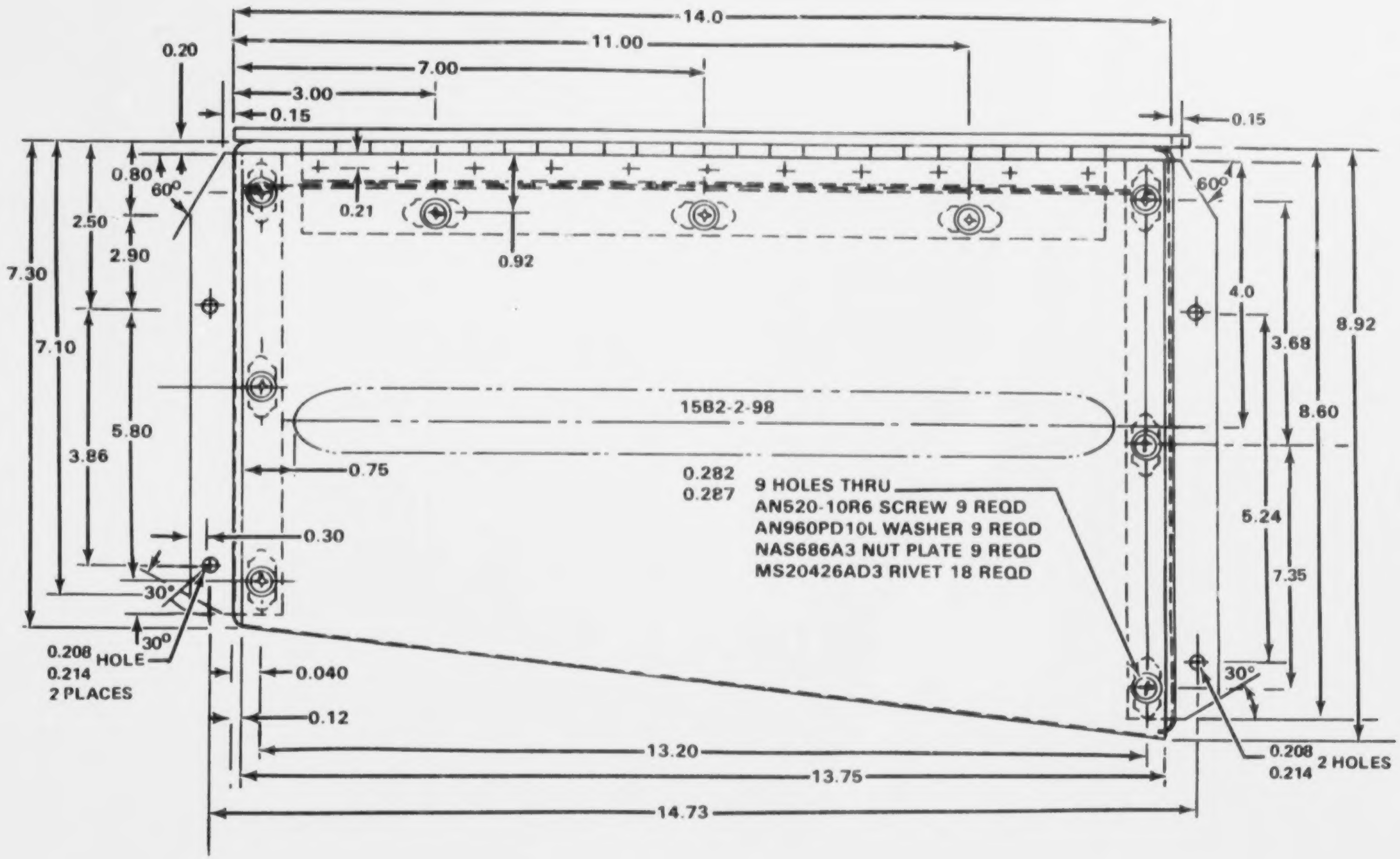
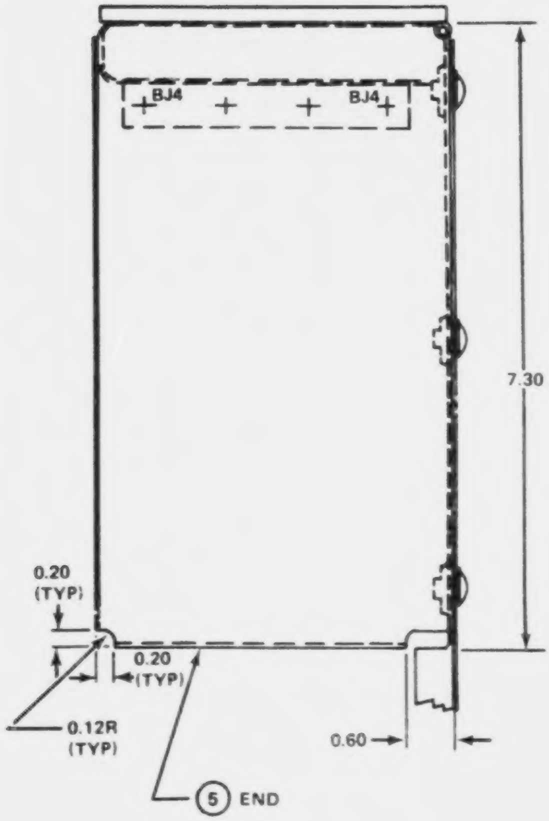

14.0
11.00
7.00
3.00
0.15
0.20
0.15
0.80
60°
0.21
0.92
2.50
2.90
7.30
7.10
5.80
3.86
0.75
0.30
30°
30°
0.208
0.214
HOLE
2 PLACES
0.040
0.12
13.20
13.75
14.73
15B2-2-98
0.282
0.287
9 HOLES THRU
AN520-10R6 SCREW 9 REQD
AN960PD10L WASHER 9 REQD
NAS686A3 NUT PLATE 9 REQD
MS20426AD3 RIVET 18 REQD
60°
4.0
3.68
8.92
8.60
5.24
7.35
30°
0.208
0.214
2 HOLES

Figure D-335. (Sheet 2 of 7)

Part Number: 205-072-038-3 SIDE
Fabricate from: NSN 9535-00-086-9729
Material: 2024 AL ALY Federal Specification QQ-A-250/4 T3
0.032 Inch Thick, 9.7 Inch Wide, 14.3 Inch Long


BJ4
BJ4
7.30
0.20
(TYP)
0.20
(TYP)
0.12R
(TYP)
0.60
⑤ END

| | | |
|---|---|---|
| Figure D-335. (Sheet 3 of 7) | **Part Number** | **205-072-038-5 END** |
| | **Fabricate from:** | **NSN 9535-00-086-9729** |
| | **Material:** | **2024 AL ALY Federal Specification QQ-A-250/4 T3, 0.032 Inch Thick, 6.1 Inch Wide, 8.2 Inch Long** |

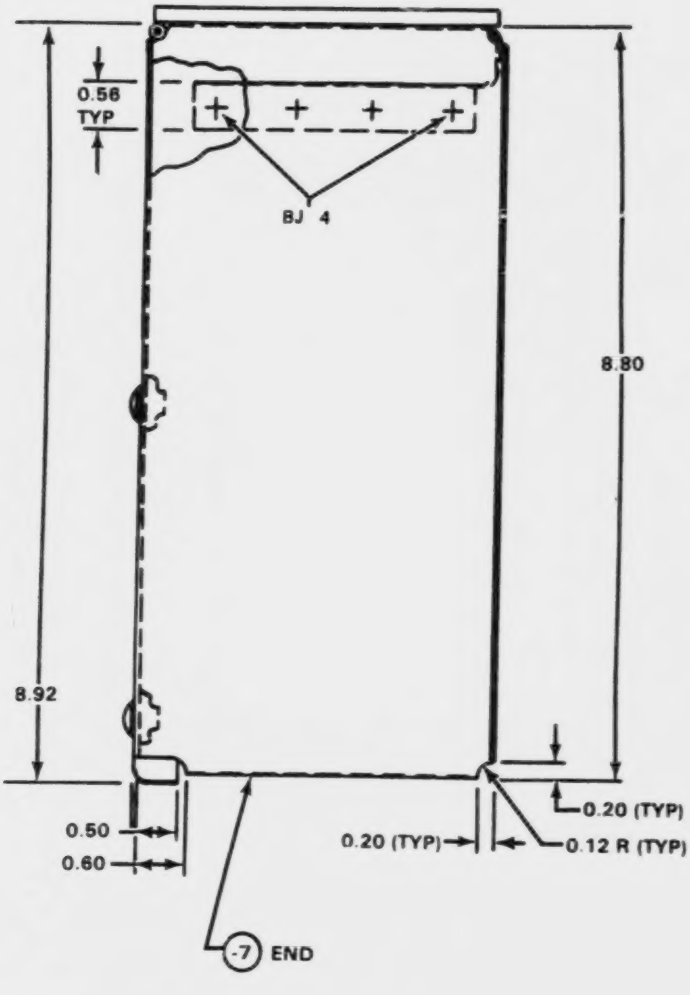

0.56
TYP
BJ 4
8.80
8.92
0.50
0.60
0.20 (TYP)
0.20 (TYP)
0.12 R (TYP)
-7 END

Figure D-335. (Sheet 4 of 7)

| | |
|---|---|
| Part Number: | 205-072-038-7 END |
| Fabricate from: | NSN 9535-00-086-9729 |
| Material: | 2024 AL ALY, Federal Specification QQ-A-250/4 T3, 0.032 Inch Thick, 6.1 Inch Wide, 10.0 Inch Long |

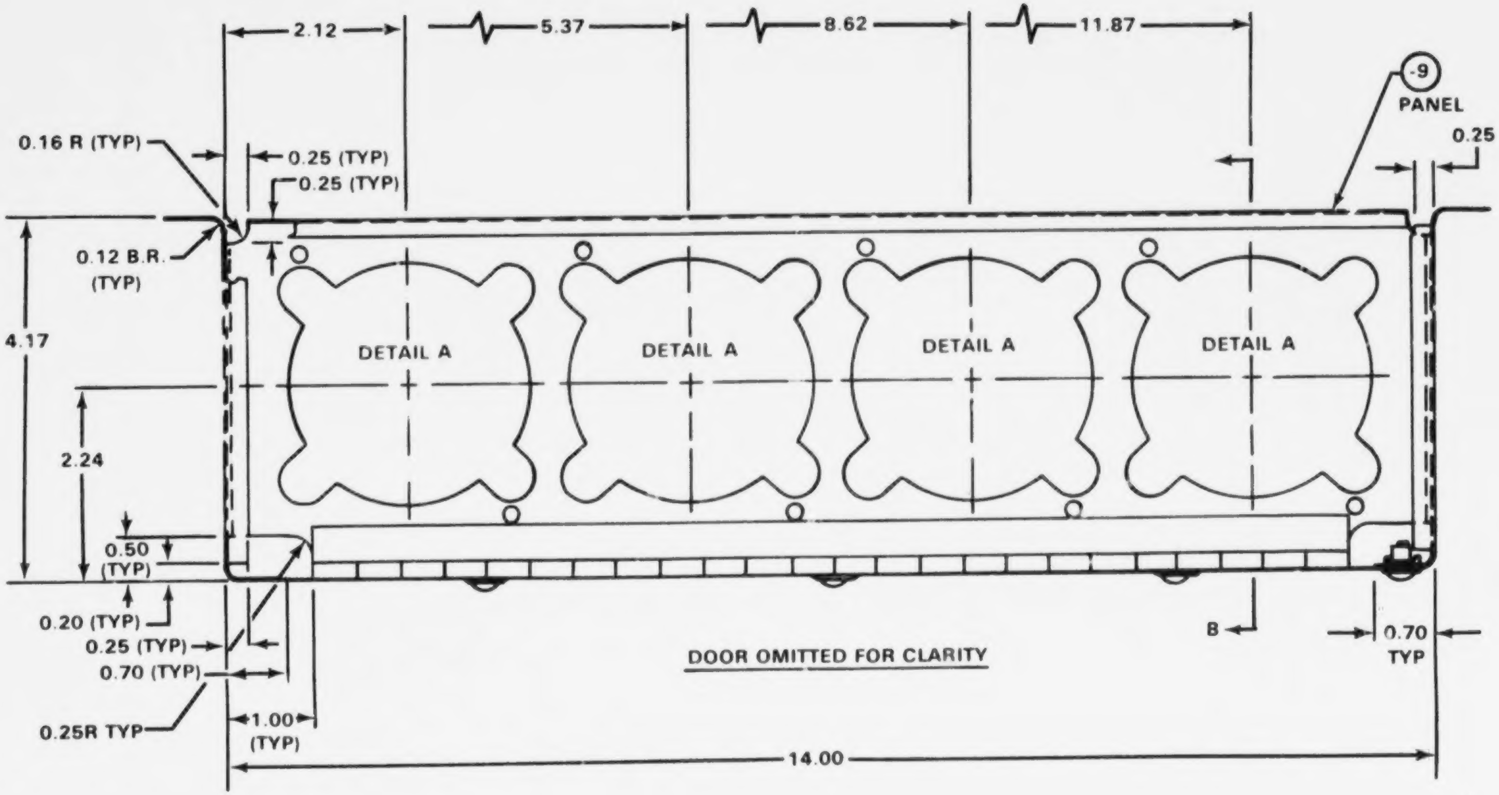
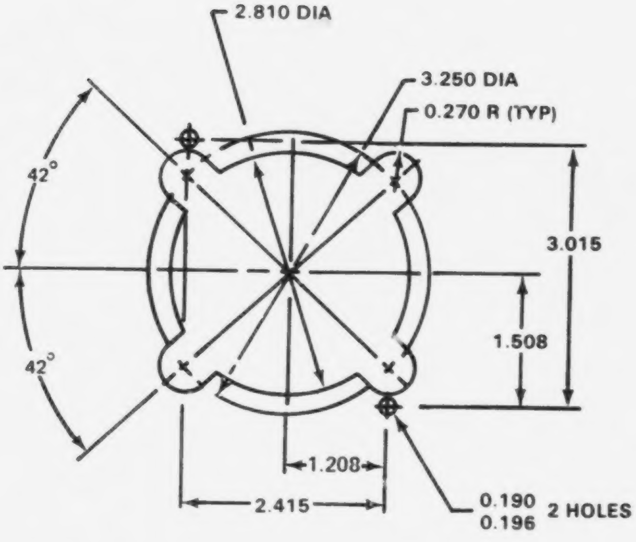
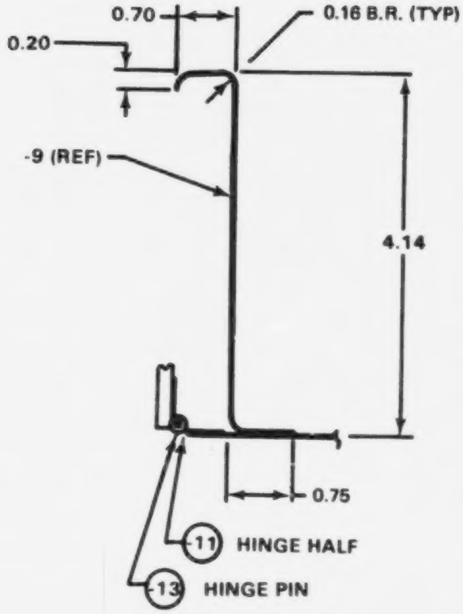

2.12
5.37
8.62
11.87
-9
PANEL
0.25
0.16 R (TYP)
0.25 (TYP)
0.25 (TYP)
0.12 B.R. (TYP)
4.17
2.24
0.50 (TYP)
0.20 (TYP)
0.25 (TYP)
0.70 (TYP)
0.25R TYP
1.00 (TYP)
14.00
DETAIL A
DETAIL A
DETAIL A
DETAIL A
B
0.70 TYP
DOOR OMITTED FOR CLARITY

Figure D-335. (Sheet 5 of 7)

| | |
|---|---|
| Part Number: | 205-072-038-9 PANEL |
| Fabricate from: | NSN 9535-00-086-9930 |
| Material: | 2024 AL ALY Federal Specificaiton QQ-A-250/4 T3, 0.040 Inch Thick, 7.0 Inch Wide, 16.0 Inch Long |


2.810 DIA
3.250 DIA
0.270 R (TYP)
42°
42°
3.015
1.508
1.208
2.415
0.190
0.196
2 HOLES

DETAIL A

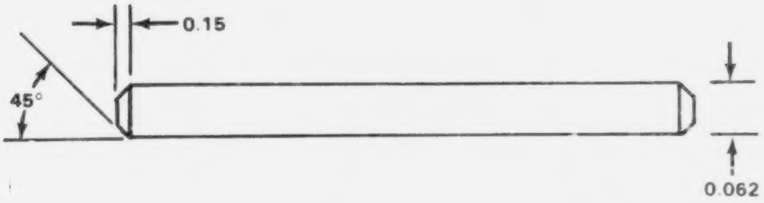

0.70
0.16 B.R. (TYP)
0.20
-9 (REF)
4.14
0.75
11 HINGE HALF
13 HINGE PIN

SECTION B-B

NOTES:

1. CUT HOLES IN -9 PANEL PER DETAIL A AND SECTION B

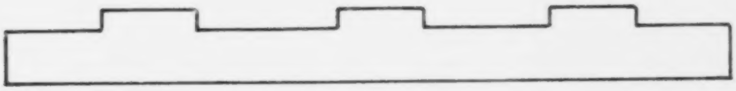
Figure D-335. (Sheet 6 of 7) **Part Number** **205-072-038-9 PANEL**



NOTES:

1. 205-072-038-13 HINGE PIN MAKE FROM MS20253P1-7200 MATERIAL

| | |
|---|---|
| Part Number | 205-072-038-13 HINGE PIN |
| Fabricate from: | NSN 5340-00-182-9901 |
| Material: | Rod Straight, Headless, Corrosion Resistant Cadmium Plated 0.062 Dia., 11.88 Inch Long |

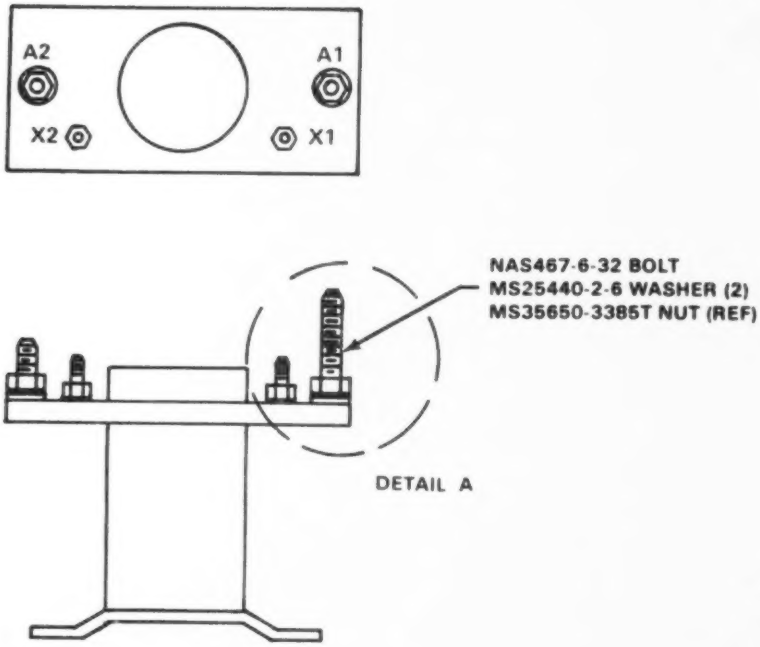


NOTES:

1. 205-072-018-11 HINGE HALF MAKE FROM MS20257HP2-7200 STOCK MATERIAL

Figure D-335. (Sheet 7 of 7)

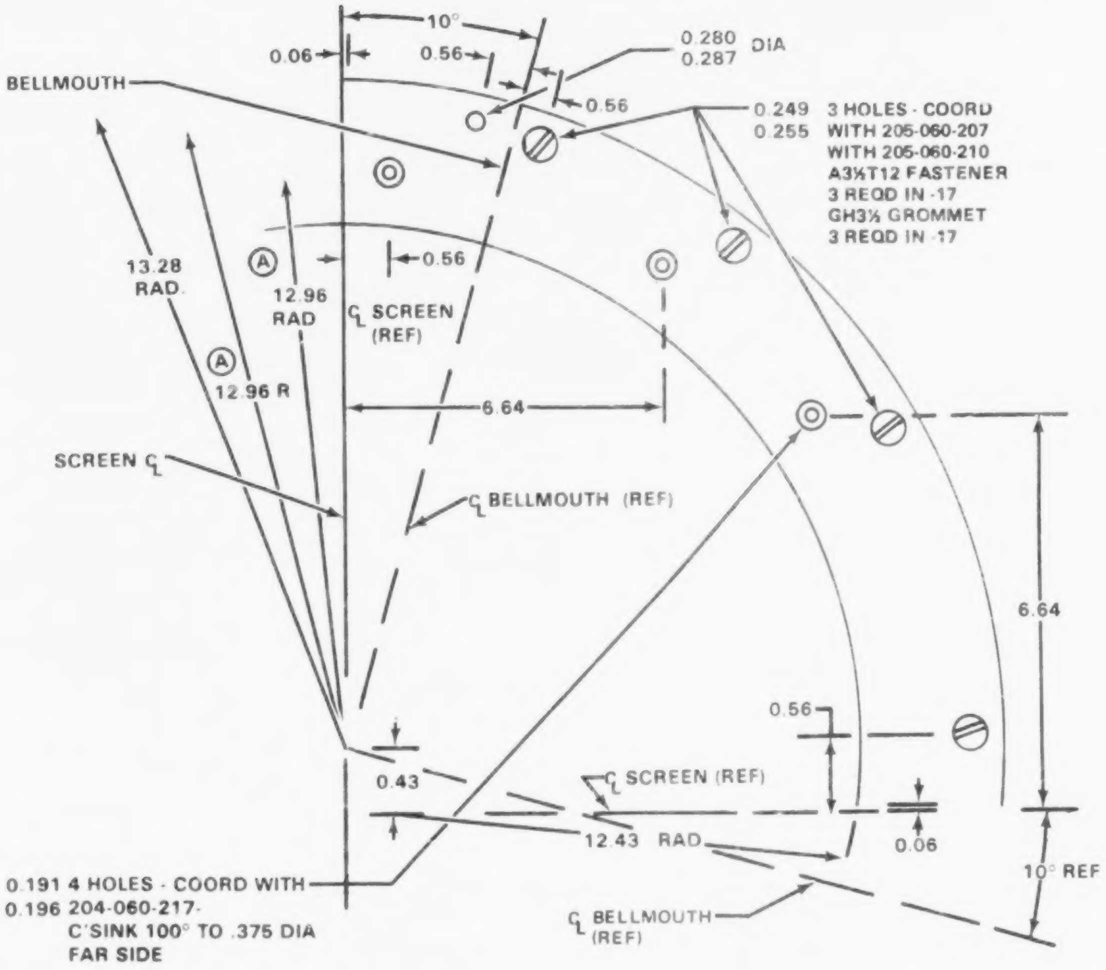
| | |
|---|---|
| Part Number | 205-072-038-11 HINGE HALF |
| Fabricate from: | NSN 5340-00-993-1461 |
| Material: | Leaf Butt Hinge AL ALY Anodized 0.531 Inch Wide, 0.040 Inch Thick, 12.00 Inch Long |


A2
A1
X2
X1
NAS467-6-32 BOLT
MS25440-2-6 WASHER (2)
MS35650-3385T NUT (REF)
DETAIL A

NOTES:

1. ALTER MS 24171-D1 RELAY PER DETAIL A REMOVE EXISTING STUD AT POSITION A1 AND INSTALL NAS 467-6-32 BOLT
2. 205-075-137-3 RELAY MAKE USING ALTERED MS 24171-D1 RELAY SOLENOID

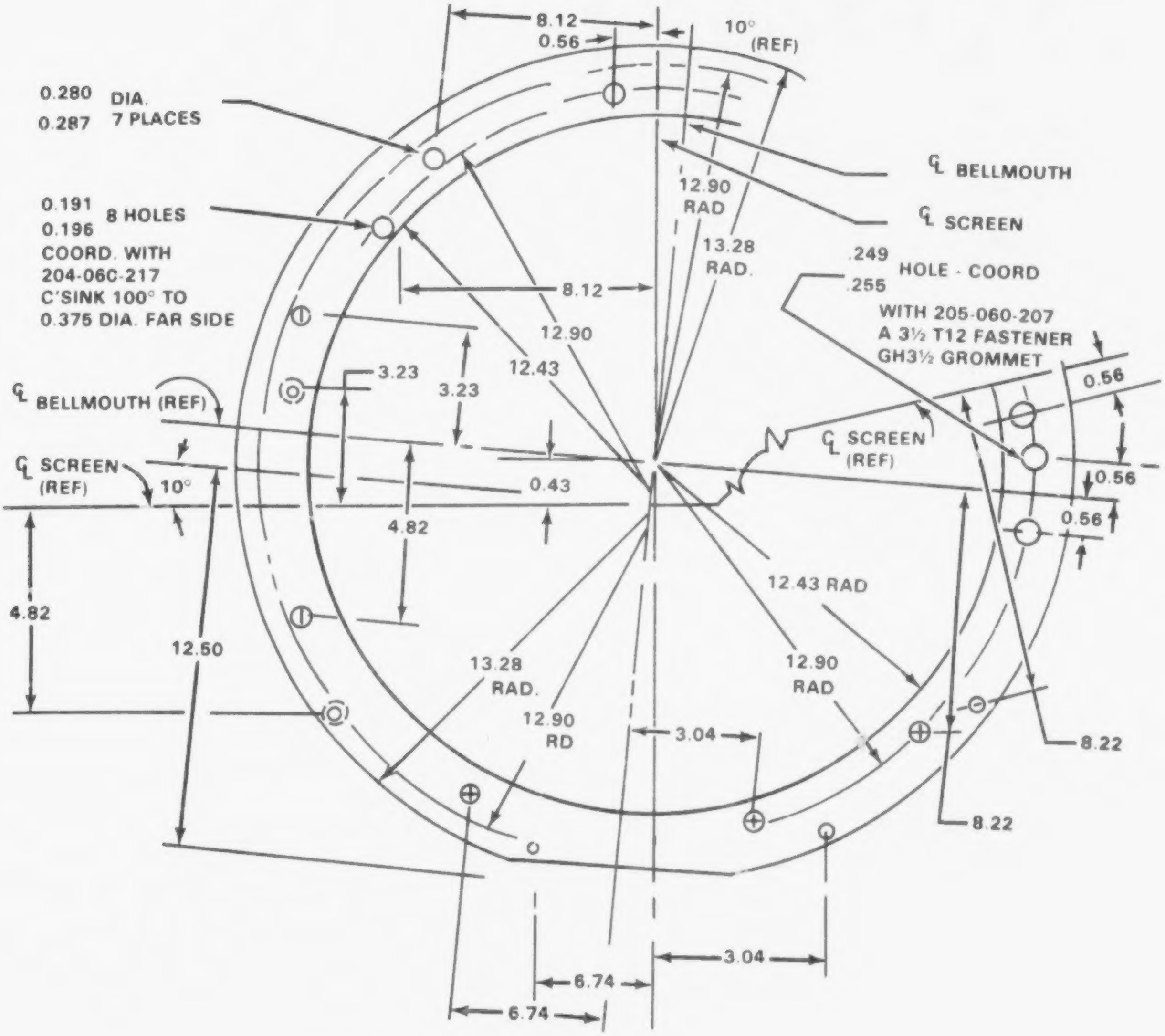
**Figure D-336.** Part Number: 205-075-137-3 RELAY
Fabricate from: NSN 5306-00-819-5120
NSN 5945-00-660-9315
Material: Machine Bolt (NAS 467-6-32)
Relay Solenoid (MS 24171-D1)


10°
0.06
0.56
0.280
0.287 DIA
0.56
BELLMOUTH
0.249 3 HOLES - COORD
0.255 WITH 205-060-207
WITH 205-060-210
A3½T12 FASTENER
3 REQD IN -17
GH3½ GROMMET
3 REQD IN -17
13.28
RAD.
Ⓐ
12.96
RAD
0.56
℄ SCREEN
(REF)
Ⓐ
12.96 R
6.64
SCREEN ℄
℄ BELLMOUTH (REF)
6.64
0.56
0.43
℄ SCREEN (REF)
12.43 RAD
0.06
10° REF
0.191 4 HOLES - COORD WITH
0.196 204-060-217-
C'SINK 100° TO .375 DIA
FAR SIDE
℄ BELLMOUTH
(REF)

NOTES:

2024 AL ALY FEDERAL SPECIFICATION QQ-A-362
T3, 0.090 INCH THICK MATERIAL MAY BE USED
AS AN ALTERNATE

| | | |
|---|---|---|
| Figure D-337. | **Part Number:** | **205-706-025-17 ADAPTER SEGMENT** |
| | **Fabricate from:** | **NSN 9535-00-232-0405** |
| | **Material:** | **2024 AL ALY, Federal Specification, QQ-A-362, T3, 0.093 Inch Thick, 13.7 Inch Wide, 14.0 Inch Long** |

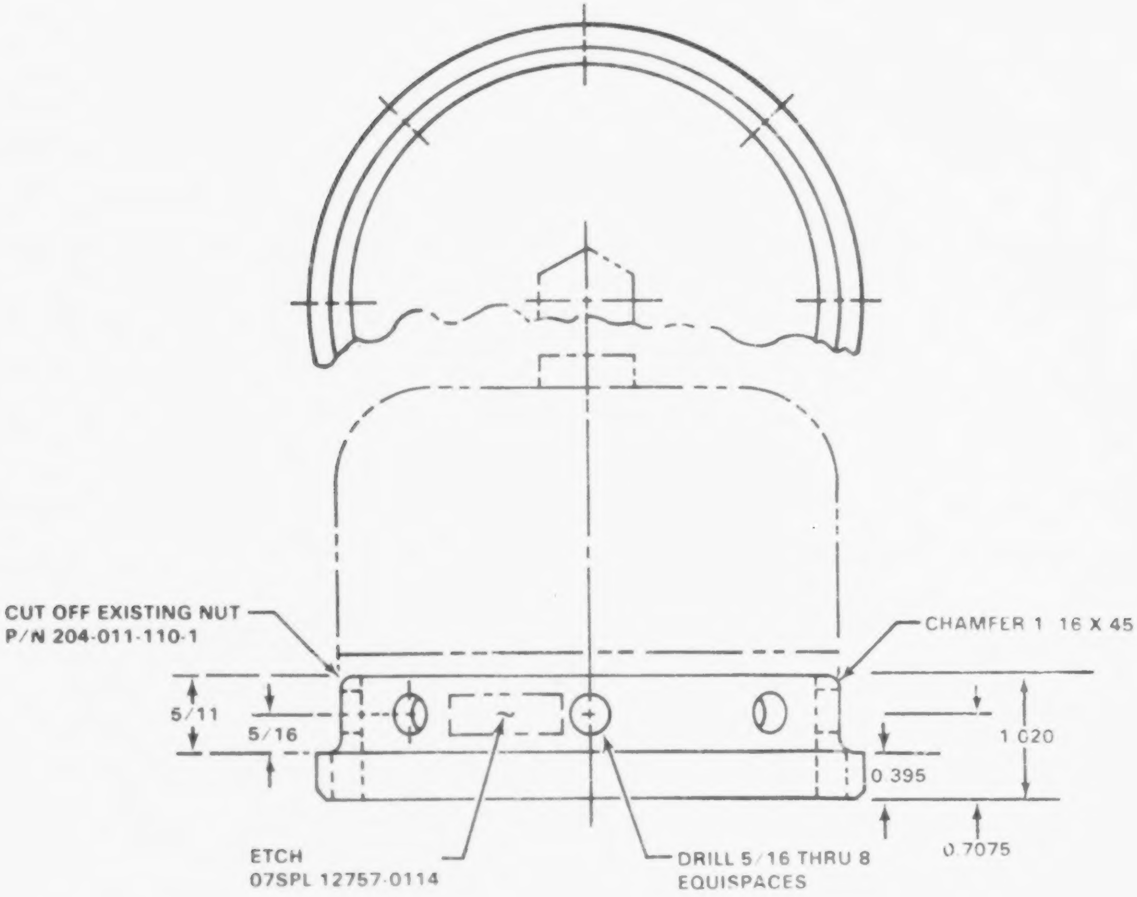

8.12
0.56
10° (REF)
0.280 DIA.
0.287 7 PLACES
℄ BELLMOUTH
℄ SCREEN
0.191 8 HOLES
0.196
COORD. WITH
204-06C-217
C'SINK 100° TO
0.375 DIA. FAR SIDE
12.90 RAD
13.28 RAD.
.249 HOLE - COORD
.255
WITH 205-060-207
A 3½ T12 FASTENER
GH3½ GROMMET
8.12
12.90
12.43
3.23
3.23
℄ BELLMOUTH (REF)
℄ SCREEN (REF)
℄ SCREEN (REF)
10°
0.43
0.56
0.56
0.56
4.82
4.82
12.50
12.43 RAD
13.28 RAD.
12.90 RAD
12.90 RD
3.04
8.22
8.22
3.04
6.74
6.74

NOTES:

2024 AL ALY FEDERAL SPECIFICATION QQ-A-362 T3, 0.090 INCH THICK MATERIAL MAY BE USED AS AN ALTERNATE

**Figure D-338.**

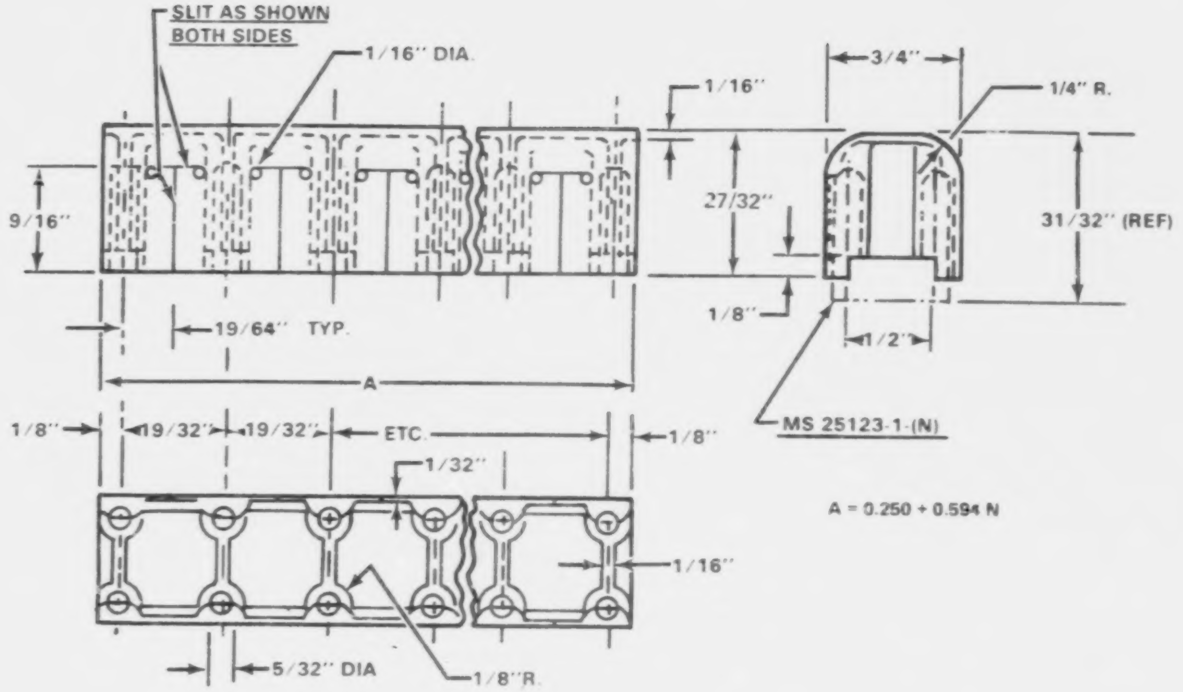
| | |
|---|---|
| **Part Number** | **205-706-025-19 ADAPTER SEGMENT** |
| **Fabricate from:** | **NSN 9535-00-232-0405** |
| **Material:** | **2024 AL ALY Federal Specification QQ-A-362 T3, 0.093 Inch Thick, 27.5 Inch Wide, 27.5 Inch Long** |


CUT OFF EXISTING NUT
P/N 204-011-110-1
CHAMFER 1 16 X 45
5/11
5/16
1 020
0 395
0.7075
ETCH
07SPL 12757-0114
DRILL 5/16 THRU 8
EQUISPACES

NOTES:

1. USE 204-011-116-1 NUT FOR REWORK INTO WRENCH ADAPTER.
2. REMOVE EXCESS MATERIAL AS INDICATED ABOVE, AND DRILL HOLES.
3. MARK NEW PART NO AS INDICATED ON FIGURE ABOVE.

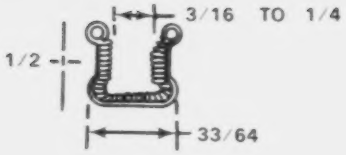
**Figure D-339.** **Part Number** **67SPL1275-0114 WRENCH ADAPTER**
**Fabricate from:** **NSN 1615-00-474-9840**
**Material:**


SLIT AS SHOWN
BOTH SIDES
1/16" DIA.
1/16"
3/4"
1/4" R.
9/16"
27/32"
31/32" (REF)
1/8"
1/2"
19/64" TYP.
A
1/8"
19/32"
19/32"
ETC.
1/8"
MS 25123-1-(N)
A = 0.250 + 0.594 N
1/32"
1/16"
5/32" DIA
1/8"R.

NOTES:

1. COVER DESIGNED FOR USE ON MS 25123-1-(N) AN3436-1-(N), AN3436-2(N) TERMINAL BOARD
2. DESIGNATION (N) INDICATES THE NUMBER OF TERMINAL STUDS WILL COVER

**Figure D-340.** **Part Number** **397-1 COVER ELECTRICAL TERMINAL BOARD**
**Fabricate from:** **NSN 5940-00-082-4642**
**Material:** **Plastic, phenol-formaldehyde**

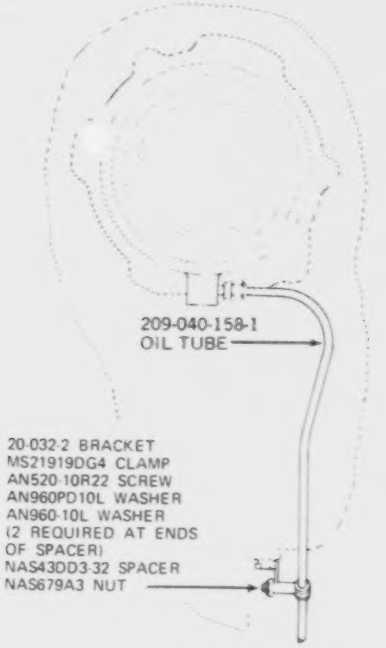


NOTES:

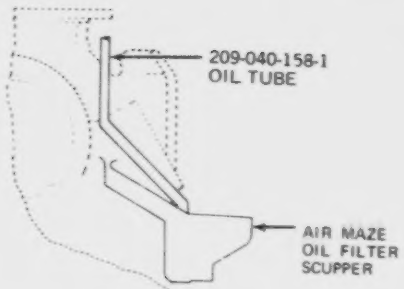
1. PART NO. 204-030-853-97, -98, -99, -100 CHANNEL MAKE FROM COMMERCIAL PART Y563-2 CHANNEL EACH PART NO ALL 127.0 INCH LONG
2. PURCHASE CHANNEL FROM
STANDARDS PRODUCTS CO.
2130 WEST 10TH STREET
CLEVELAND, OHIO
CODE IDENT 82654

Figure D-341.

| | |
|---|---|
| Part Number: | 204-030-853-97 CHANNEL<br>204-030-853-98 CHANNEL<br>204-030-853-99 CHANNEL<br>204-030-853-100 CHANNEL |
| Fabricate from: | NSN 1560-00-004-4458 |
| Material: | Channel Rigid Pile Lining Uncovered, 33/64 Inch Wide, 1/2 Inch High 3/16 to 1/4 Opening |

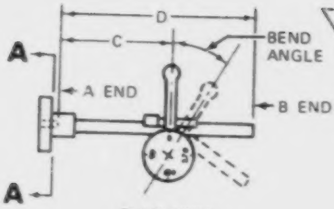

209-040-158-1
OIL TUBE
20-032-2 BRACKET
MS21919DG4 CLAMP
AN520-10R22 SCREW
AN960PD10L WASHER
AN960-10L WASHER
(2 REQUIRED AT ENDS
OF SPACER)
NAS43DD3-32 SPACER
NAS679A3 NUT

VIEW OF INPUT DRIVE QUILL INSTALLED IN TRANSMISSION

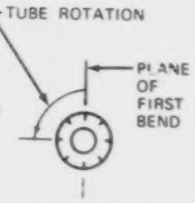

209-040-158-1
OIL TUBE
AIR MAZE
OIL FILTER
SCUPPER

RIGHT REAR VIEW OF TRANSMISSION SUMP CASE

**Part Number 209-040-158-1 Oil Tube**
**Fabricate From NSN 4710-00-541-4932**
**Material Aluminum Alloy Tube**


D
C
BEND
ANGLE
A
A END
B END
A

PLAN VIEW


TUBE ROTATION
PLANE
OF
FIRST
BEND

VIEW A-A

INSTALLATION INSTRUCTIONS

FINISHED TUBE DIMENSIONS

| BEND NO. | C INCHES | BEND RADIUS INCHES | TUBE ROTATION FROM PLANE OF FIRST BEND, CCW VIEWED FROM B END, DEGREES. | BEND ANGLE DEGREES |
|---|---|---|---|---|
| 1. | 15.94 | 0.56 | 0 | 90 |
| 2. | 12.00 | 0.56 | 274 | 46 |
| 3. | 9.62 | 0.56 | 197 | 30 |
| 4. | 8.12 | 0.56 | 14 | 29 |
| 5. | 5.50 | 0.56 | 93 | 51 |
| 6. | 2.69 | 0.56 | 213 | 38 |

D = 17.25 ALONG ℄ OF TUBE FROM END A TO B

| END | FITTING | TYPE |
|---|---|---|
| A | NONE | 4 |
| |  | |
| B | AN818-4D | 2 |
| | MS20819-4D | |

TYPE OF END

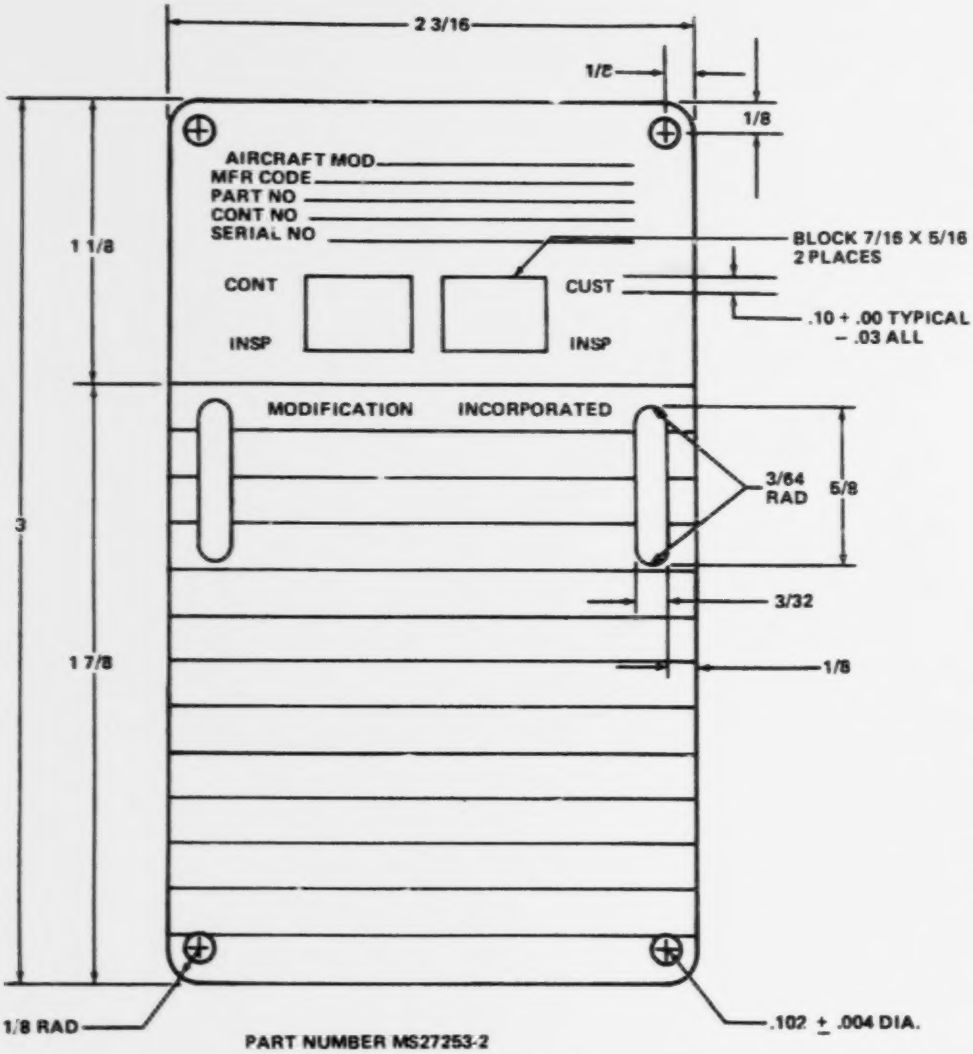
1 FLARE . . . . . . . . MS33584
2 DBL FLARE . . . . . MS33583
3 BEAD . . . . . . . . . MS33660
4 SQUARE
5 NOTED

FABRICATION INSTRUCTIONS

| STOCK TUBE SIZE | | | MATL | MATL SPEC |
|---|---|---|---|---|
| OD | WALL | LENGTH | | |
| 1/4 | 0.028 | 19.0 | 5052-0<br>AL. ALY. TUBE | WW-T-700/4 TYPE 1 TEMP - 0 |

**Part Number AN8 18–4D, Nut, Tube Coupling**
**NSN 4730–00–287–0289**
**Part Number MS208 19–4D, Sleeve, Flares, Tube**
**NSN 4730–00–302–8641**

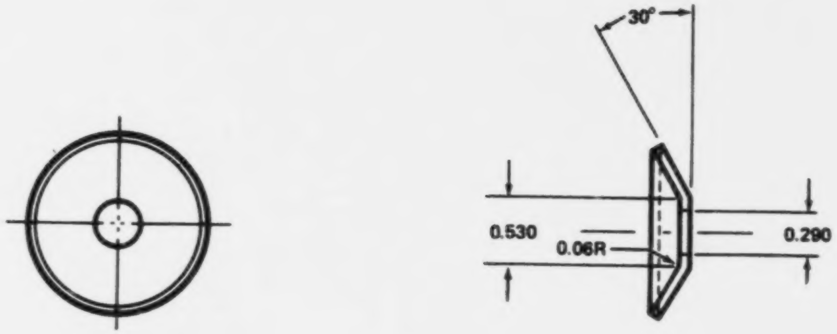
**Figure D-342.**


2 3/16
1/8
1/8
AIRCRAFT MOD
MFR CODE
PART NO
CONT NO
SERIAL NO
BLOCK 7/16 X 5/16
2 PLACES
1 1/8
CONT
INSP
CUST
INSP
.10 + .00 TYPICAL
− .03 ALL
MODIFICATION INCORPORATED
3/64
RAD
5/8
3
3/32
1 7/8
1/8
1/8 RAD
.102 ± .004 DIA.

PART NUMBER MS27253-2

FABRICATE FROM: NSN 9535-00-528-7174

Figure D-343. Plate, Identification

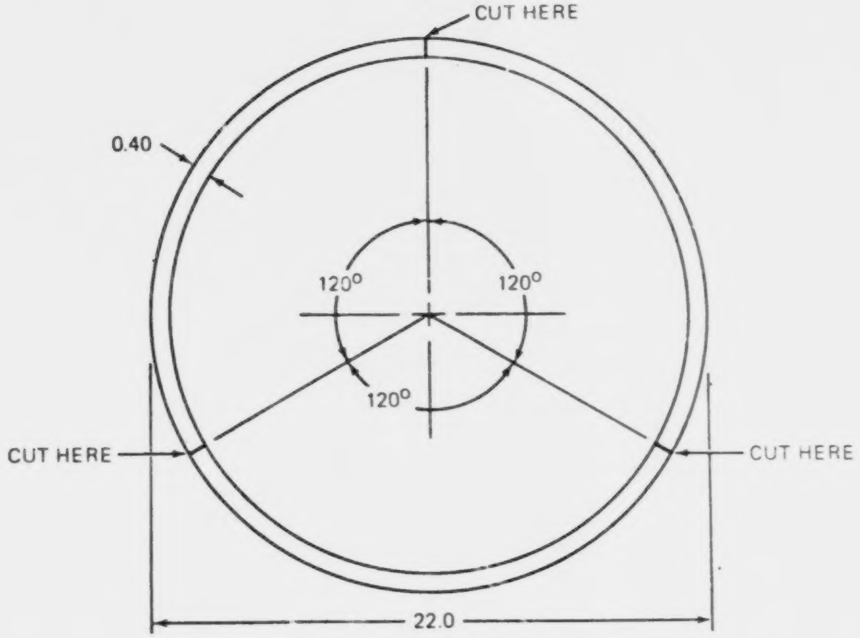


NOTES:

1. Brush CAD reworked areas as required.

WASHER, SAFETY
PART NUMBER: 206-010-324-1 (FSCM 97499)
FABRICATE FROM: NSN 5310-00-167-0766

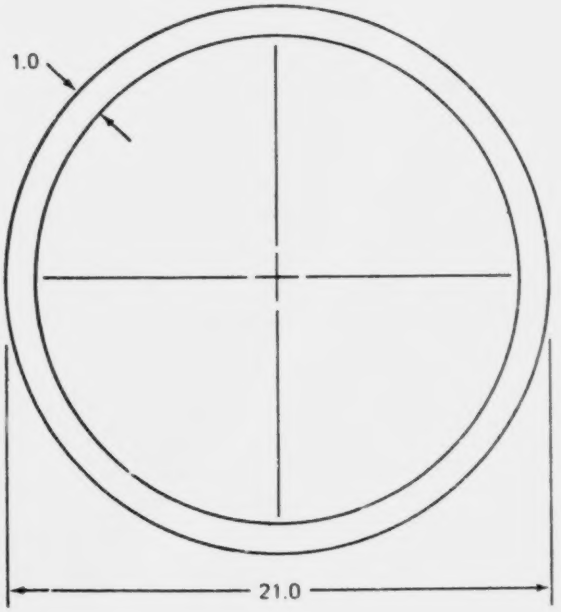
Figure D-344. Washer, Safety


CUT HERE
0.40
120°
120°
120°
CUT HERE
CUT HERE
22.0

NOTE
EACH SECTION CONSTITUTES
A 204-050-868-5 GASKET. THREE
GASKETS ARE REQUIRED FOR
INSTALLATION.

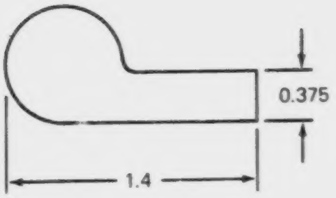
GASKET
PART NUMBER: 204-060-868-5
FABRICATE FROM: Gasketing Material G89, FSCM 92798

**Figure D-345. Gasket**



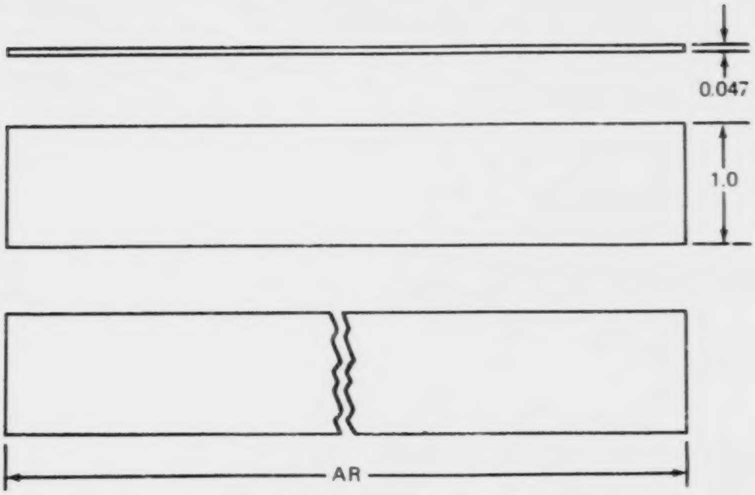
GASKET
PART NUMBER: 204-060-816-33
FABRICATE FROM: Gasketing Material G89, FSCM 92798

**Figure D-346. Gasket**



PART NUMBER: 205-060-909-7
FABRICATE FROM: NSN 9390-00-851-9178
LENGTH: AS REQUIRED

Figure D-347. Seal, Tadpole



PART NUMBER: 205-060-909-23
FABRICATE FROM: NSN 5330-00-938-1719

Figure D-348. Gasket

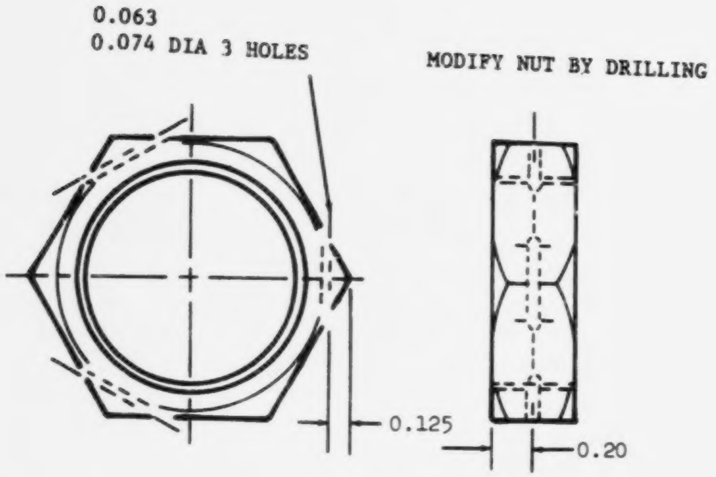
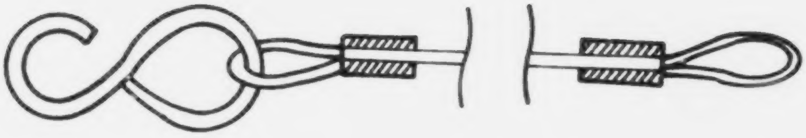

0.063
0.074 DIA 3 HOLES
MODIFY NUT BY DRILLING
0.125
0.20

**Figure D-349.** Engine torque transmitter nut
PART NUMBER: 270-580292-12
FABRICATE FROM: NSN 5310001991028
MATERIAL: AN924-12D



**NOTE:** Overall length of cable assy to be determined at time of installation.

Figure D-350. Part Number 1560-UH1-760 Cable Assembly, Cargo Door
Fabricate from: NSN 4010-00-222-4482 Cable 1/16 inch
NSN 9505-00-528-5017, Rod 3/16 inch
4181 steel
NSN 4030-00-452-2568 Swaging sleeve (2)

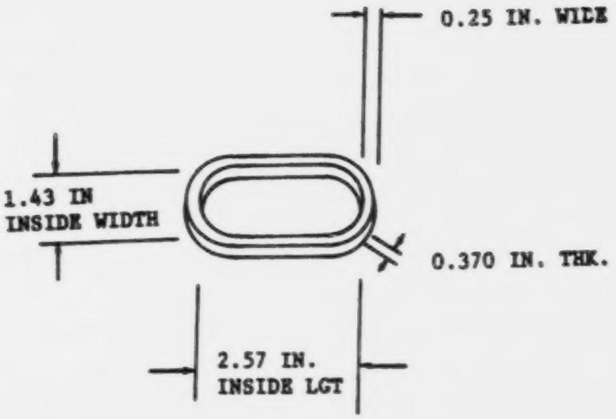
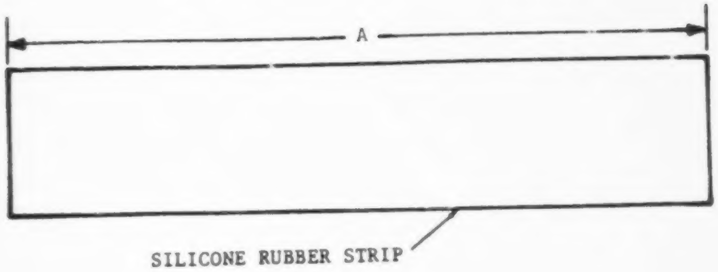

0.25 IN. WIDE
1.43 IN
INSIDE WIDTH
0.370 IN. THK.
2.57 IN.
INSIDE LGT

Figure D-351 Part Number AA 8621-2D12 Gasket
Fabricate from: NSN 9320-00-839-8503
Material: Rubber Sheet, Cellular,
MIL-R-6130, Type 2, Grade A,
Condition Soft



| PART NUMBER | NOMENCLATURE | FABRICATE FROM NSN | A |
|---|---|---|---|
| 204-030-287-89 | SILICONE RUBBER STRIP | 9320-00-827-0584 | 26 INCHES |
| 204-030-287-91 | SILICONE RUBBER STRIP | 9320-00-827-0584 | 2.5 INCHES |
| 204-031-347-25 | SILICONE RUBBER STRIP | 9320-00-827-0584 | 24 INCHES |
| 205-031-669-105 | RUBBER SEAL | 9320-00-113-5845 | 100 INCHES |
| 205-060-805-13 | RUBBER SEAL | 9390-00-138-4145 | 17 INCHES |
| 205-030-028-29 | SILICONE RUBBER STRIP | 9320-00-827-0584 | 32.5 INCHES |
| 205-030-484-25 | SILICONE RUBBER STRIP | 9320-00-827-0584 | 32.5 INCHES |

Figure D-352.

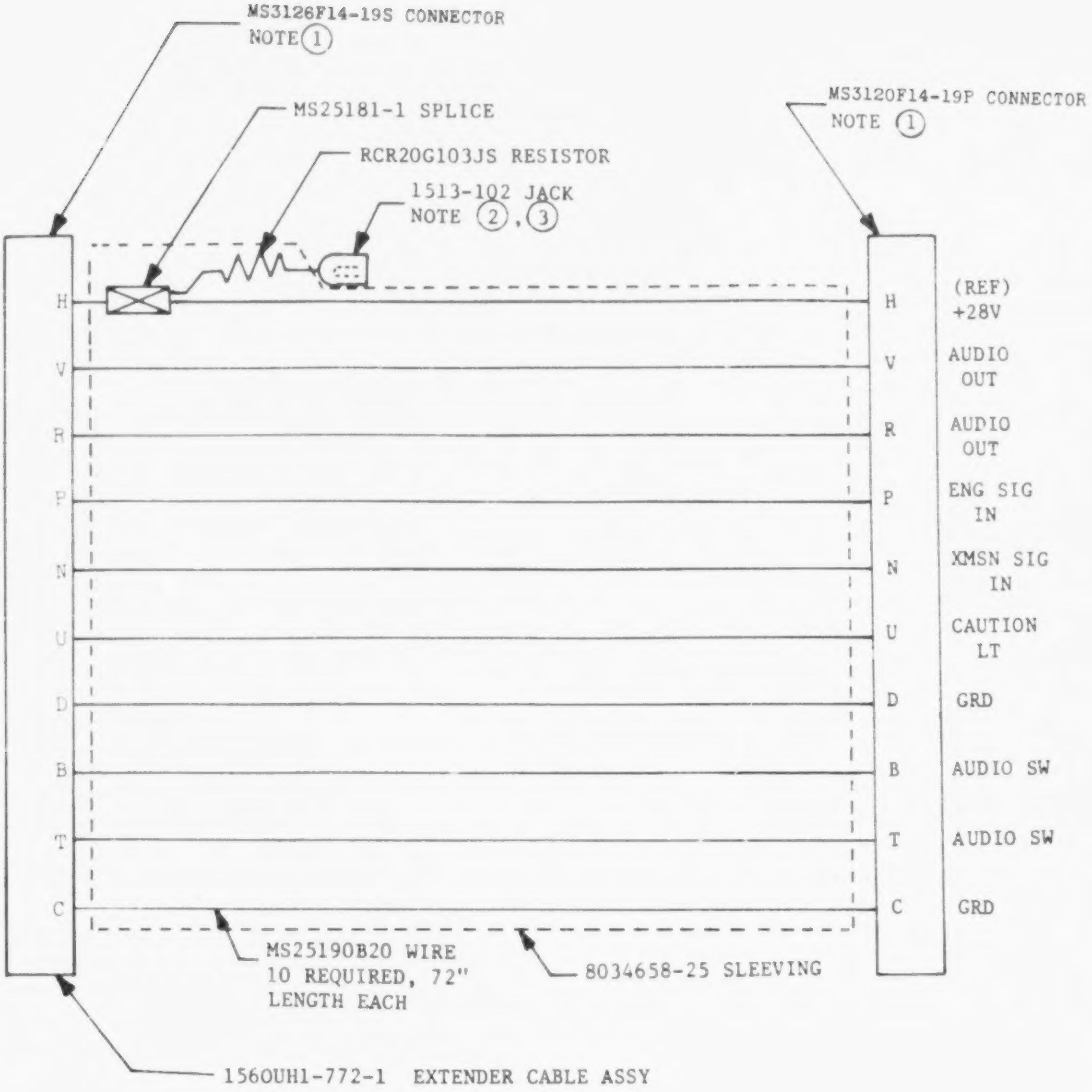
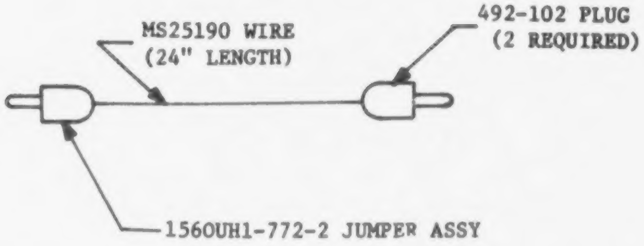

MS3126F14-19S CONNECTOR
NOTE ①
MS25181-1 SPLICE
RCR20G103JS RESISTOR
1513-102 JACK
NOTE ②,③
MS3120F14-19P CONNECTOR
NOTE ①
H
V
R
P
N
U
D
B
T
C
H (REF) +28V
V AUDIO OUT
R AUDIO OUT
P ENG SIG IN
N XMSN SIG IN
U CAUTION LT
D GRD
B AUDIO SW
T AUDIO SW
C GRD
MS25190B20 WIRE
10 REQUIRED, 72" LENGTH EACH
8034658-25 SLEEVING
1560UH1-772-1 EXTENDER CABLE ASSY

Figure D-353. (Sheet 1 of 2)



NOTES

1 PIN A, E, F, G, J, K, L, M, S NOT USED
2 MARK "AUX JACK"
3 UNINSULATED LEAD MUST BE COVERED BY SLEEVING, SECURE JACK TO CABLE
4 INSULATED WITH STD PHONE TIP (0.080 DIA x 0.5 INCH TEST PROD)
5 INSULATED, CABLE MOUNT ACCEPTS STD PHONE TIP (NOTE 4)

Figure D-353 Part Number 1560UH1-772-1, RPM WARNING DETECTOR TEST EXTENDER CABLE ASSEMBLY (sheet 2 of 2)

Fabricate from: NSN 6145-00-851-8505
Material: MIL-W-50861 Type 2
NSN 5970-00-557-6254
Material: MIL-J-7444, Type 1 Class 1
NSN 5935-00-078-3586
Material: MIL-C-26482
NSN 5935-00-765-5989
Material: MIL-C-26482
NSN 5935-00-909-7894
Material: ⑤
NSN 5905-00-141-0591
Material: MIL-R-39008
NSN 5940-01-007-7875
Material: MIL-T-7928

Part Number 1560UH1-772-2, RPM WARNING DETECTOR TEST JUMPER ASSEMBLY

Fabricate from: NSN 6145-00-851-8505 ④
Material: MIL-W-5086 Type 2
NSN 5935-00-578-3494
Material: ④

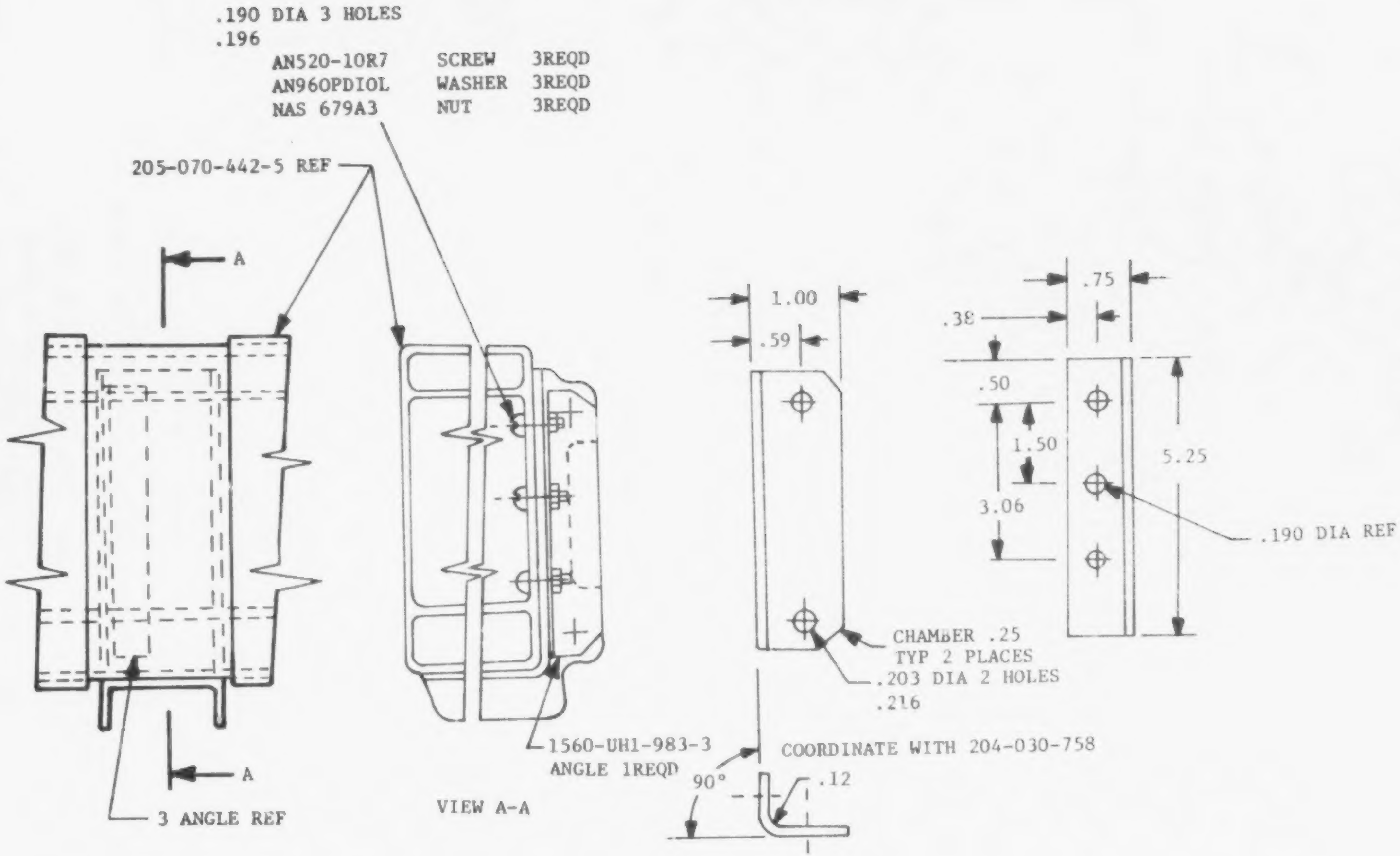

.190 DIA 3 HOLES
.196
AN520-10R7 SCREW 3REQD
AN960PDIOL WASHER 3REQD
NAS 679A3 NUT 3REQD
205-070-442-5 REF
A
A
3 ANGLE REF
VIEW A-A
1560-UH1-983-3
ANGLE 1REQD
1.00
.59
CHAMBER .25
TYP 2 PLACES
.203 DIA 2 HOLES
.216
COORDINATE WITH 204-030-758
90°
.12
.75
.38
.50
1.50
3.06
5.25
.190 DIA REF

Figure D-354. Part Number 1560-UH1-983-3, Angle, Air Distribution Valve

Fabricate from: NSN 9535-00-086-9729
Material: 2024-T3 QQ-A-250/5
.032 x 1.75 x 5.25

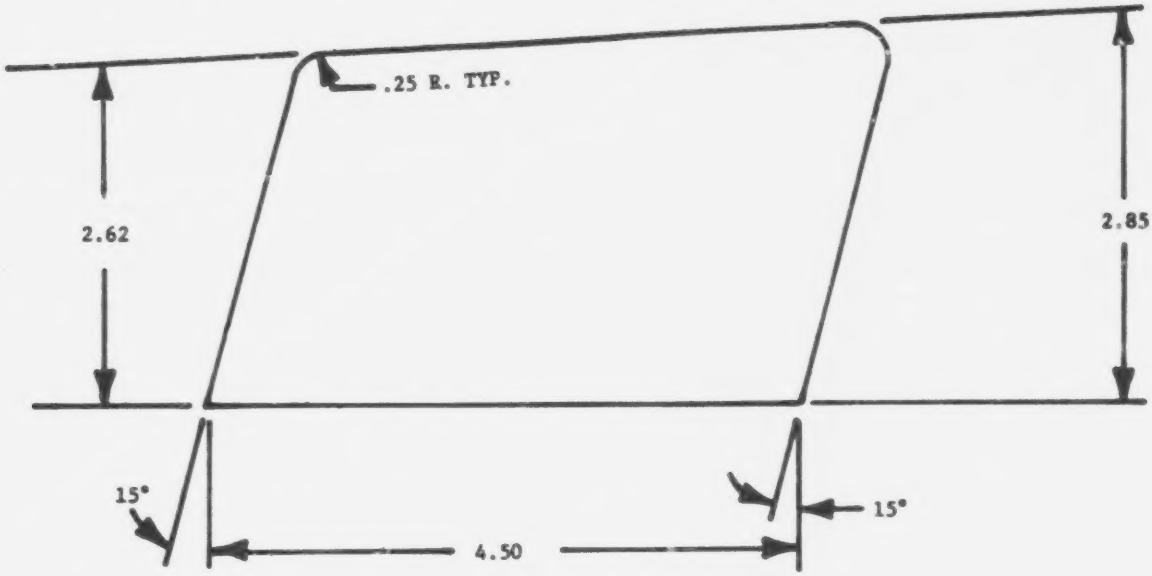

.25 R. TYP.
2.62
2.85
15°
15°
4.50

Figure D-355. Part Number 1560-UH1-781 Doubler Plate, R-1963/ARN
Fabricate from: NSN 9535-00-232-8846
Material: Aluminum Sheet, .032 inch thick 2024-T3, QQ-A-250/4

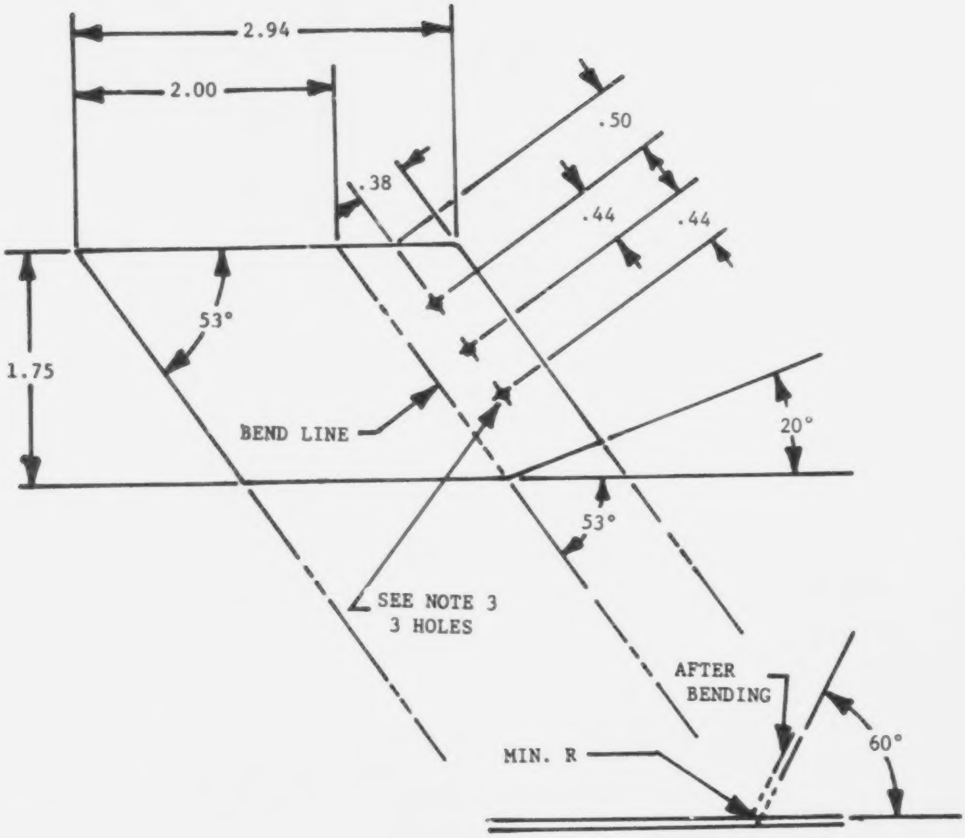
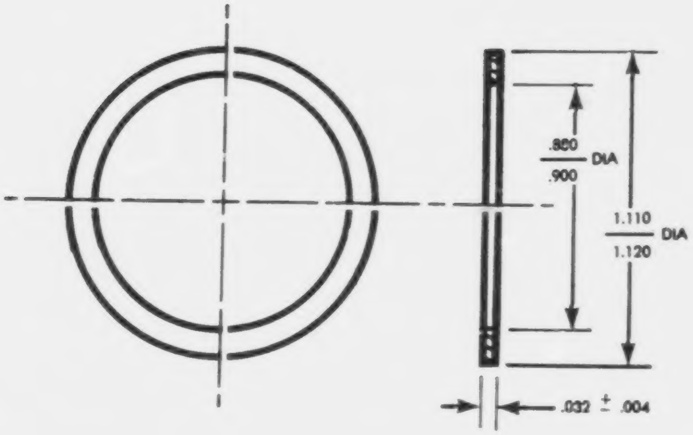

2.94
2.00
.50
.38
.44
.44
53°
1.75
BEND LINE
20°
53°
SEE NOTE 3
3 HOLES
AFTER
BENDING
60°
MIN. R

Figure D-356. Part Number 1560-UH1-791. Cross
Brace Extension, R-1963/ARN
Fabricate from: NSN 9535-00-232-8825
Material: Aluminum Sheet, .063 inch
thick 2-24-T3, QQ-A-350/4


.880
.900
DIA
1.110
1.120
DIA
.032 ± .004

1. DEBURR SHARP EDGES

2. FABRICATE FROM NSN5310-00-282-6907, WASHER, FLAT

Figure D-357. Part Number 1560-UH-1-990-1 Washer, Flat

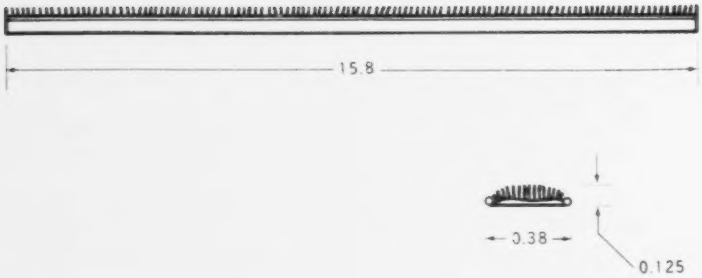
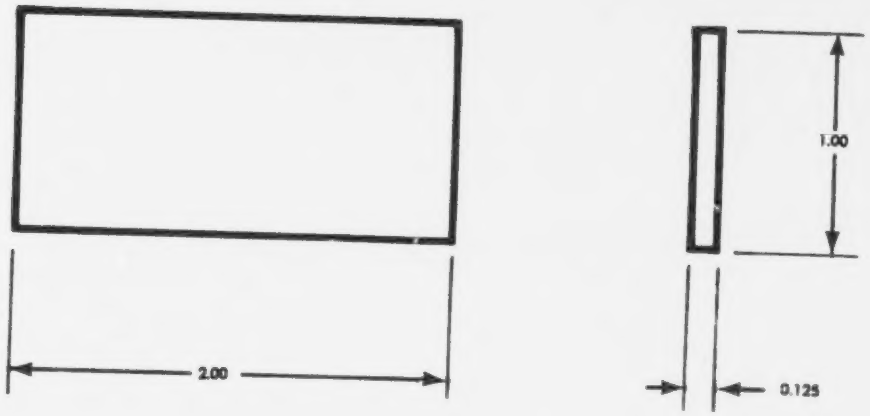
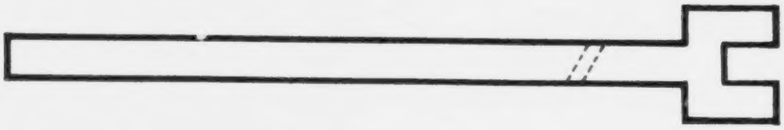


**Figure D-358.**
**Part Number:** **204-030-853-93, WIPER**
**Fabricate from:** NSN 6320-00-079-0897
**Material:** **#YM3 Strip, Commercial**
A Product of FSCM 82654.
Alternate, #T179Y 5022 Poly-Pile,
A Product of FSCM 77824.



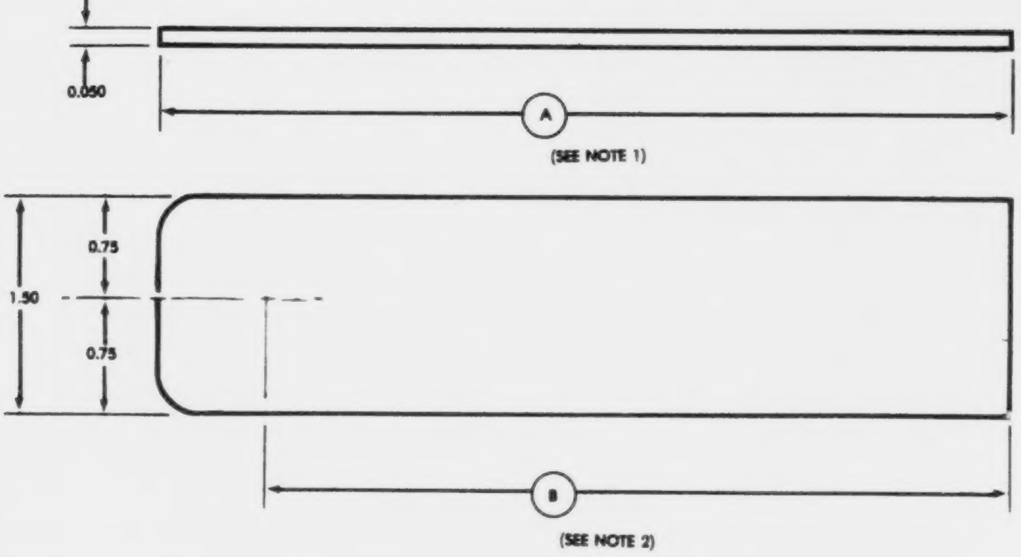
**FABRICATE FROM: NSN 9330-00-202-1890, PLASTIC SHEET 0.125 INCH THICK**

Figure D-359. Part Number 1560-UH-1-761, Security Device, Window



Fabricate from NSN 3040-00-701-9919 by drilling a 3/32 in. dia. hole. The hole should be parallel to adjacent door structure to accomodate pin.

Figure 360. Part Number 1560-UH1-762-1, Rod, Security Device, Pilot's Door.

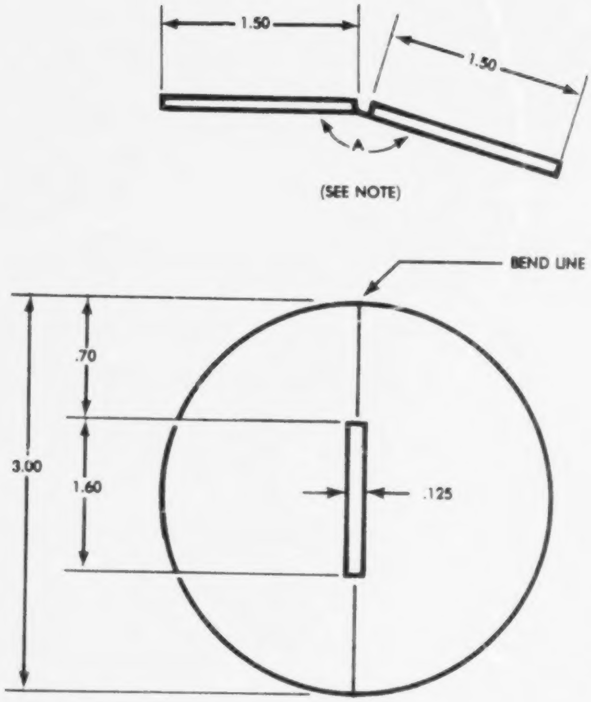


NOTES: 1. LENGTH A AS REQUIRED TO PICK UP EXISTING RIVET PATTERN ON DOOR POST ASSEMBLY AND TO ALLOW A SMALL TAB TO PROTRUDE BEYOND DOOR MOLD LINE FOR LOCK HOLE

2. LENGTH B SHOULD BE MEASURED FOR EACH AIRCRAFT TO INSURE SNUG FIT BETWEEN PLATE (1560-UH-1 -765) AND LOCK

FRABRICATE FROM: NSN 9515-00-878-4332, STAINLESS STEEL SHEET, 0.050 THICK

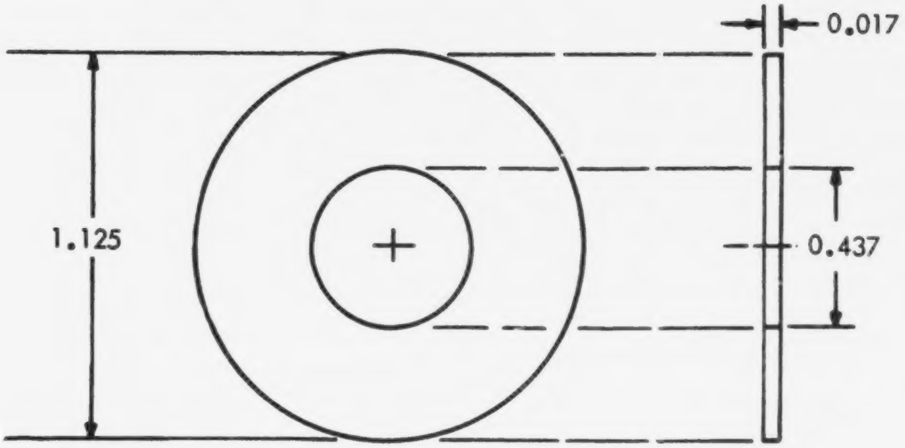
Figure D-361. Part Number 1560-UH-1-764, Security Device


1.50
1.50
A
(SEE NOTE)
BEND LINE
.70
3.00
1.60
.125

NOTE: DIMENSION "A" TO BE
DETERMINED BY FORM
FIT TO AIRCRAFT

**FABRICATE FROM: NSN 9515-00-878-4332, STAINLESS STEEL SHEET 0.050 INCH THICK**

Figure D-362. Part Number 1560-UH-1-765, Plate Copilot Security Device



PART NUMBER: 1560UH1-711-1 WASHER, ANTI-CHAFFING

FABRICATE FROM: NSN 5970-00-118-8838

MATERIAL: INSULATION SHEET, ELECTRICAL FIBERGLASS

FIGURE D-363.

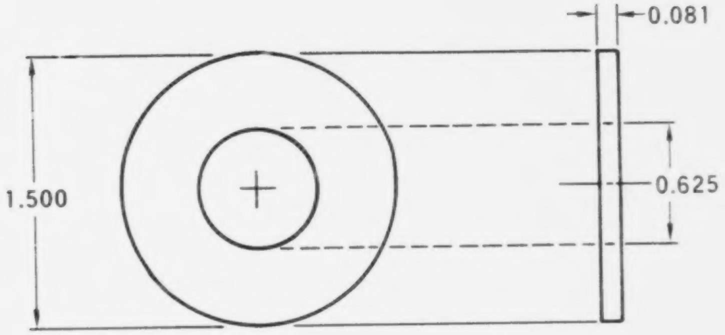

0.081
1.500
0.625

Figure D-364.

| | |
|---|---|
| Part Number: | 5310-UH1-036-1, WASHER |
| Fabricate from: | NSN 9380-00-143-7110 |
| Material: | Rubber Sheet |

P/N 205-030-009-51
Fabricate from 98 inches of NSN 9320-01-012-7683

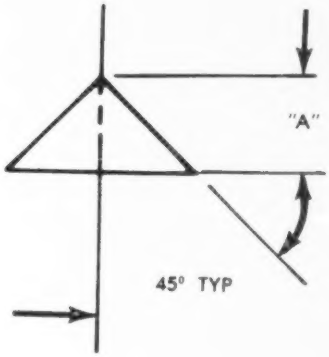
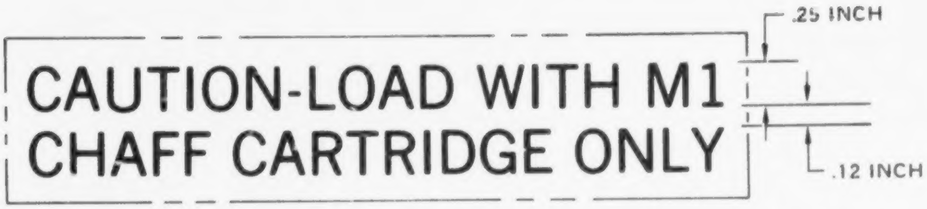
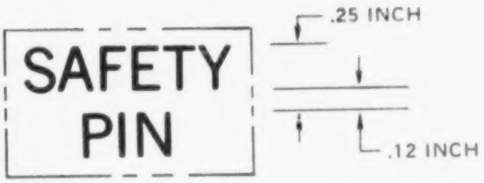


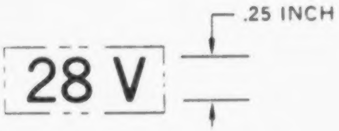
FIGURE D-365, EXTRUSION-RUBBER


CAUTION-LOAD WITH M1
CHAFF CARTRIDGE ONLY
.25 INCH
.12 INCH

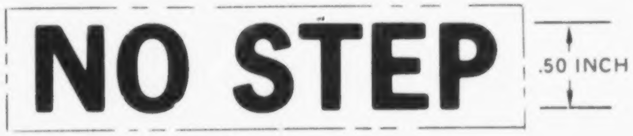
STENCIL (205-071-118-101)


SAFETY
PIN
.25 INCH
.12 INCH

STENCIL (205-071-118-103)



STENCIL (205-071-118-105)


NO STEP
.50 INCH

STENCIL (205-071-118-107)

| | | |
|---|---|---|
| Figure D-366. | Part Number: | 205-071-118-101<br>205-071-118-103<br>205-071-118-105<br>205-071-118-107 |
| | Fabricated from: | 9310-00-265-6797 |
| | Material: | Stencil Board, Federal Specification UU-S-625, Type 2, Grade 1 |

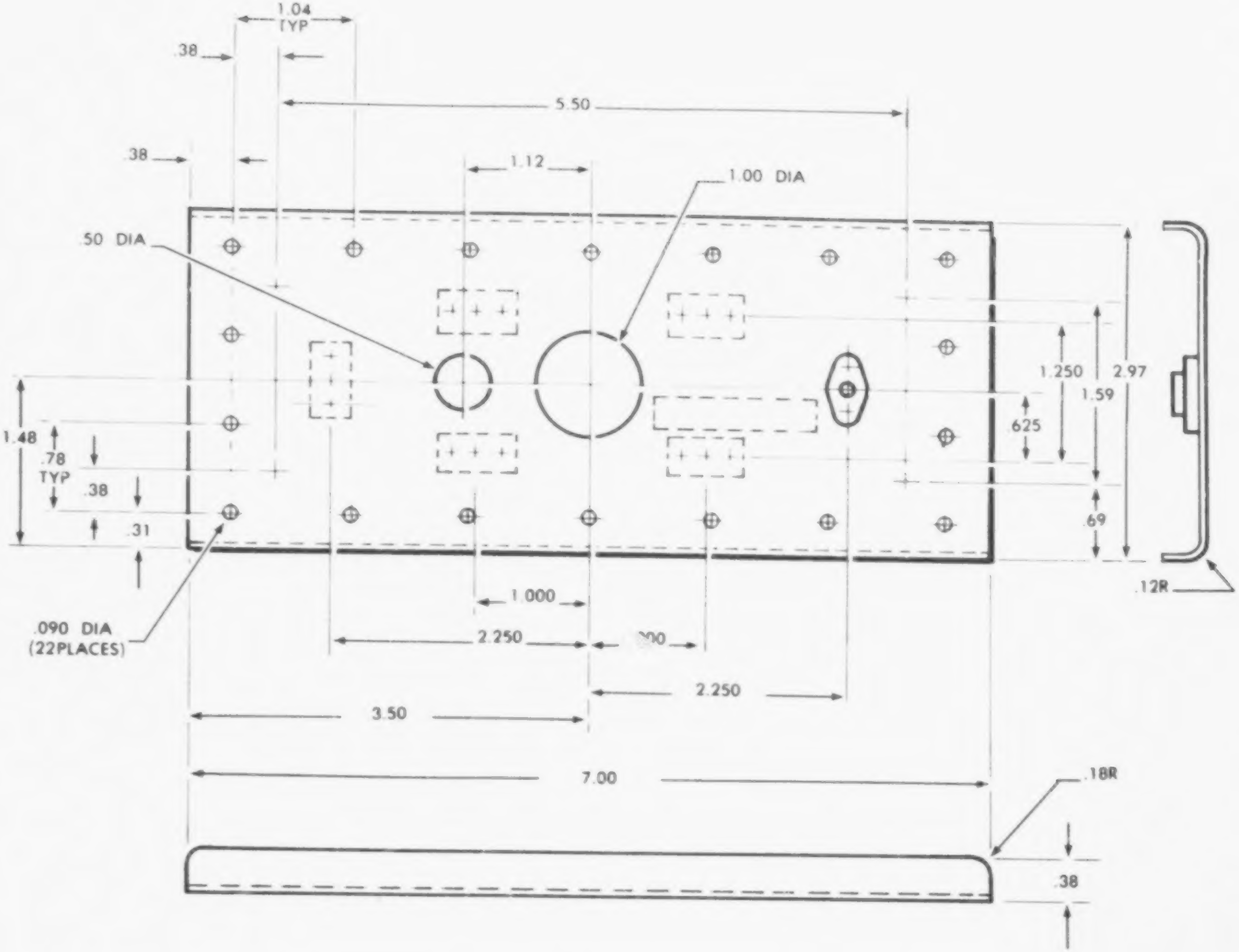

1.04
TYP
.38
.38
5.50
1.12
1.00 DIA
.50 DIA
1.250
2.97
1.59
625
1.48
.78
TYP
.38
.31
.69
.12R
.090 DIA
(22PLACES)
1.000
2.250
2.250
3.50
7.00
.18R
.38

Figure D-367 Plate Doubler Assembly, PN1560-UH1-1044

Fabricate From: NSN 9535-00-086-9930 Metal Sheet
5310-00-781-9493 Nut
5320-00-117-6938 Rivet
Material: Aluminum Alloy, .040 Thick, 2024-T3 per QQ-A-250/4

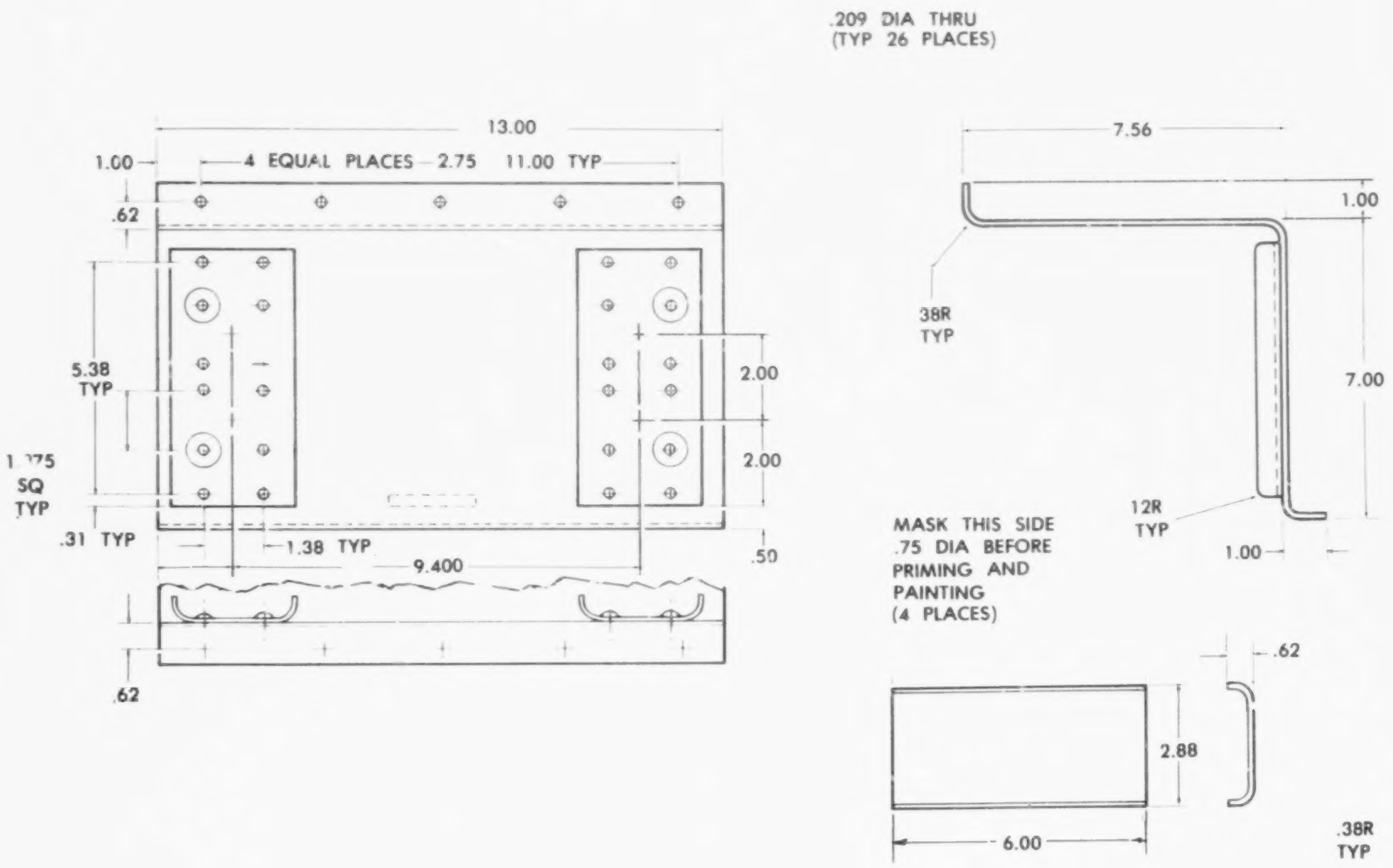
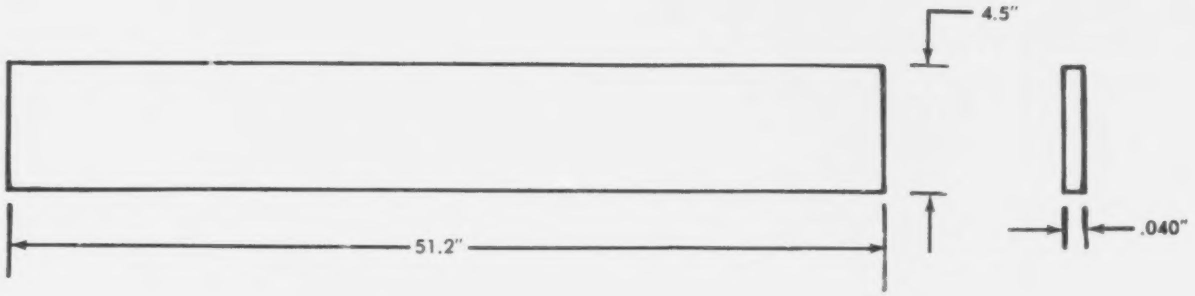

.209 DIA THRU
(TYP 26 PLACES)
13.00
1.00
4 EQUAL PLACES 2.75
11.00 TYP
.62
5.38
TYP
1.375
SQ
TYP
.31 TYP
1.38 TYP
9.400
2.00
2.00
.50
.62
7.56
1.00
38R
TYP
7.00
12R
TYP
1.00
MASK THIS SIDE
.75 DIA BEFORE
PRIMING AND
PAINTING
(4 PLACES)
.62
2.88
6.00
.38R
TYP

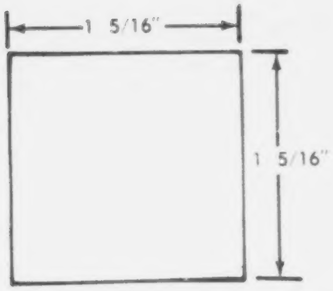
**Figure D-368. Bracket, PN1560-UH1-1023**

Fabricate From: NSN 9535-00-230-7571 Metal Sheet
5320-00-999-2188 Rivet
Material: Aluminum Alloy GR2024-T3 .071 Thick per QQ-A-250-4



PART NUMBER: 205-031-669-101
FABRICATE FROM: NSN 8305-00-205-2735
MATERIAL: SEAL, STANFLEX FAB

FIGURE D-369.



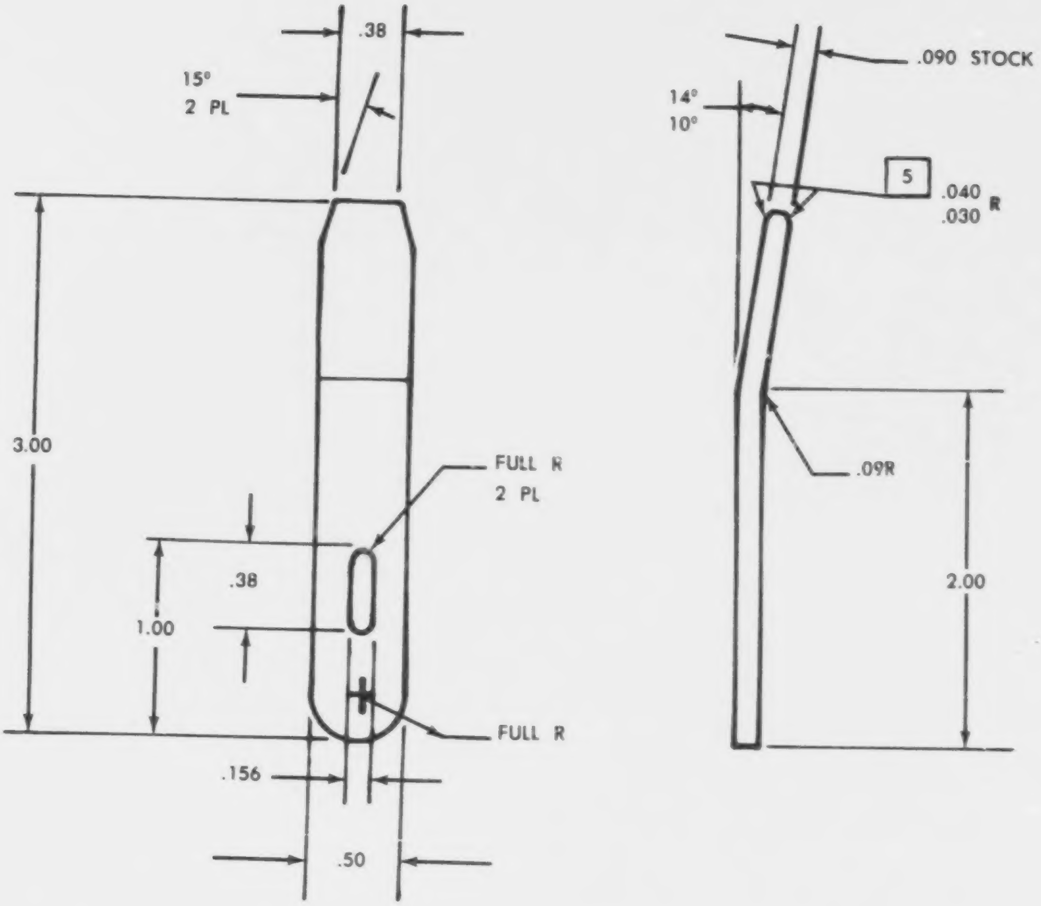
Part Number: 204-030-832-7

Fabriacte from: NSN 9320-00-814-4583

Material: Rubber sheet, MIL-R-6130, Type 2,

Grade A fire and oil resistant

FIGURE D-370.


.38
15°
2 PL
3.00
FULL R
2 PL
.38
1.00
FULL R
.156
.50
.090 STOCK
14°
10°
5
.040
.030
R
.09R
2.00

**PART NUMBER** 745016

**FABRICATE FROM:** NSN 9535-00-818-0871

**MATERIAL:** ALALY; 6061-T6 PER QQ-A-250/11

FIGURE D-371.

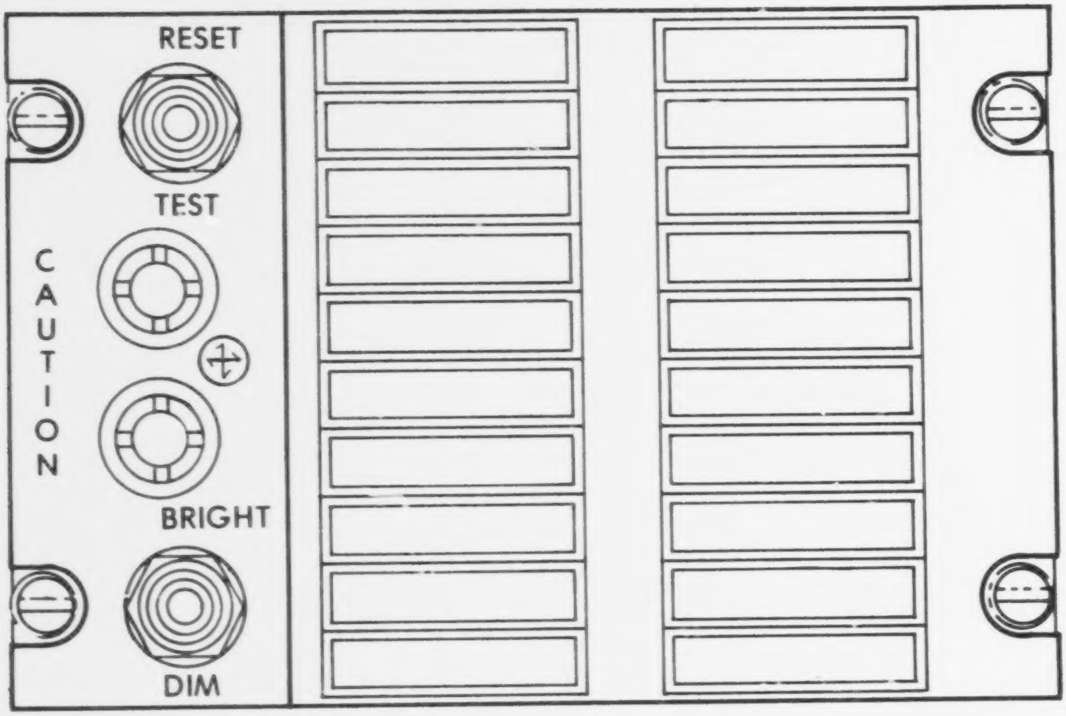
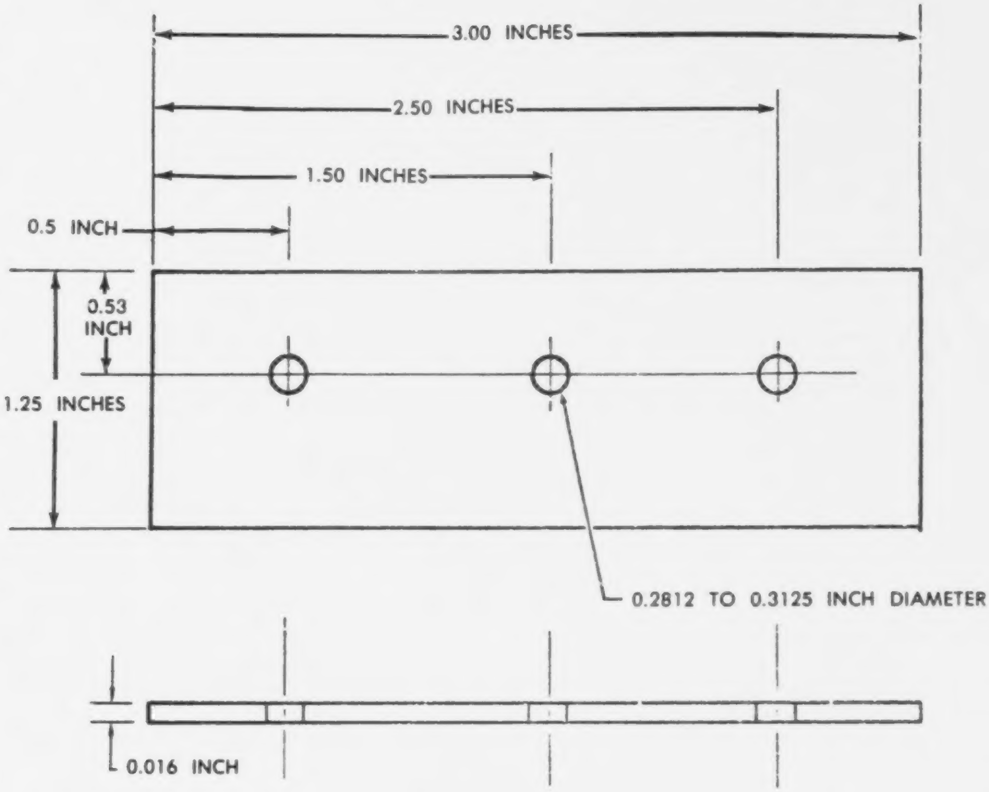

RESET
TEST
CAUTION
BRIGHT
DIM

Figure D-372 Master Caution Panel, PN ES-C-221355

Fabricate From: NSN 1680-00-021-5510, Panel
P/N25-0259-30, Lens
P/N25-0259-220, Lens

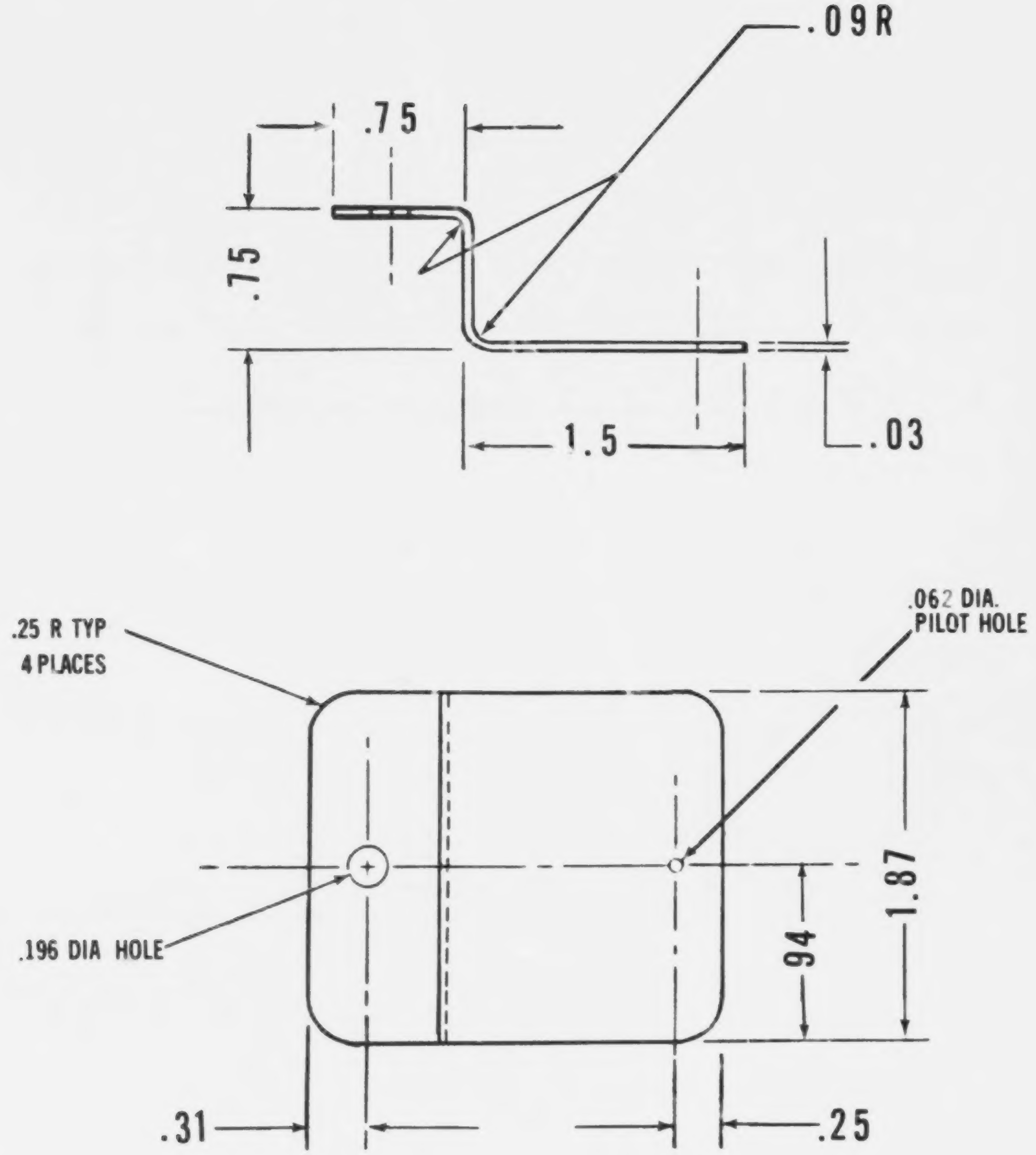

3.00 INCHES
2.50 INCHES
1.50 INCHES
0.5 INCH
0.53 INCH
1.25 INCHES
0.2812 TO 0.3125 INCH DIAMETER
0.016 INCH

FABRICATE FROM ALUMINUM ALLOY 2024T3

NSN 9535-00-084-4450

P/N 1560-UH1-981

FIGURE D-373.


.09R
.75
.75
1.5
.03
.25 R TYP
4 PLACES
.062 DIA.
PILOT HOLE
.196 DIA HOLE
94
1.87
.31
.25

NOTES:

1. MATERIAL: ALUM, ALLOY 2024-T4 ,. 031 THK.PER SPRCC QQ - A-250/4
2. FINISH P 513.1 LUSTERLESS BLK. NO. 37038 PER FED - STS -595
   AND MIL - F14072.
3. IDENTIFY PER MIL STD-130.

Figure D-374. Bracket, Relay PN ES-C-221697
Fabricate From: NSN 9535-00-084-4395

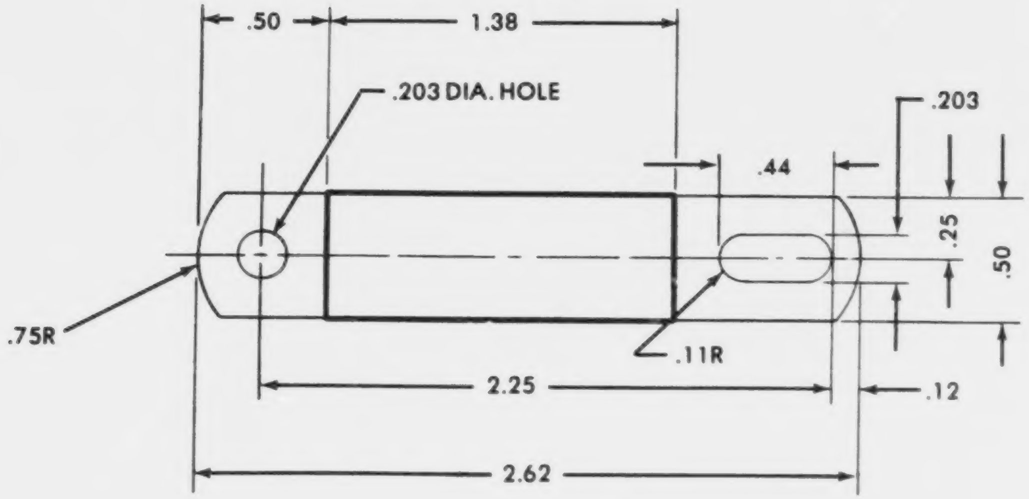

.50
1.38
.203 DIA. HOLE
.203
.44
.25
.50
.75R
.11R
2.25
.12
2.62

Figure D-375. Jumper Assy, Bus Bar, PN ES-B-221720

Fabricate From: NSN 5970-00-815-1295, 6150-00-225-0267
Material: Copper Sheet, .063 Thk, annealed per spec. QQ-C-576

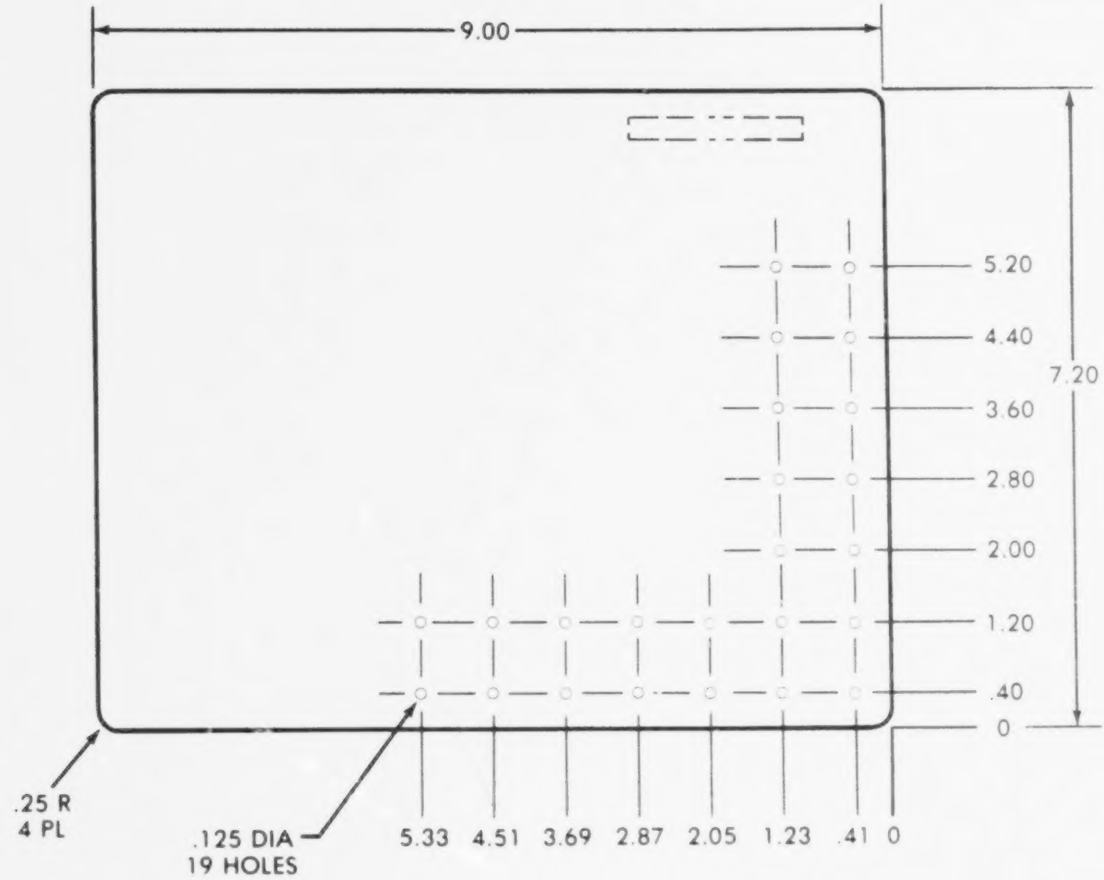

9.00
7.20
5.20
4.40
3.60
2.80
2.00
1.20
.40
0
.25 R
4 PL
.125 DIA
19 HOLES
5.33
4.51
3.69
2.87
2.05
1.23
.41
0

Figure D-376. Plate, Reinforcing, DF Ant., Forward PN5065695

Fabricate From: NSN 9535-00-085-4133
Material: Al. Alloy, 6061-T6, .032 Thk, QQ-A-250/11

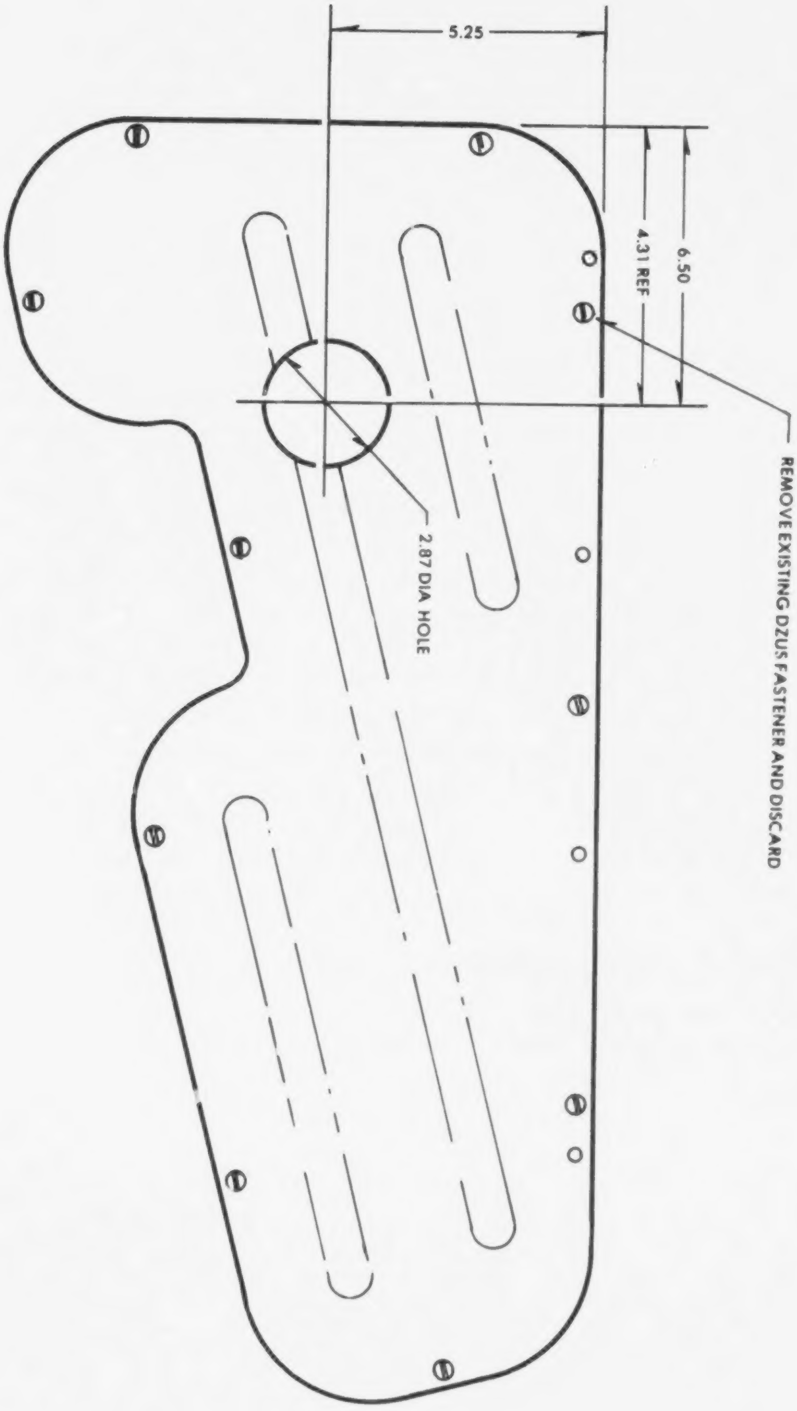

5.25
6.50
4.31 REF
2.87 DIA HOLE
REMOVE EXISTING DZUS FASTENER AND DISCARD

**Figure D-377. Pedestal, Access Door, PN ES-F-221565**

Fabricate From: NSN 1560-00-885-1835

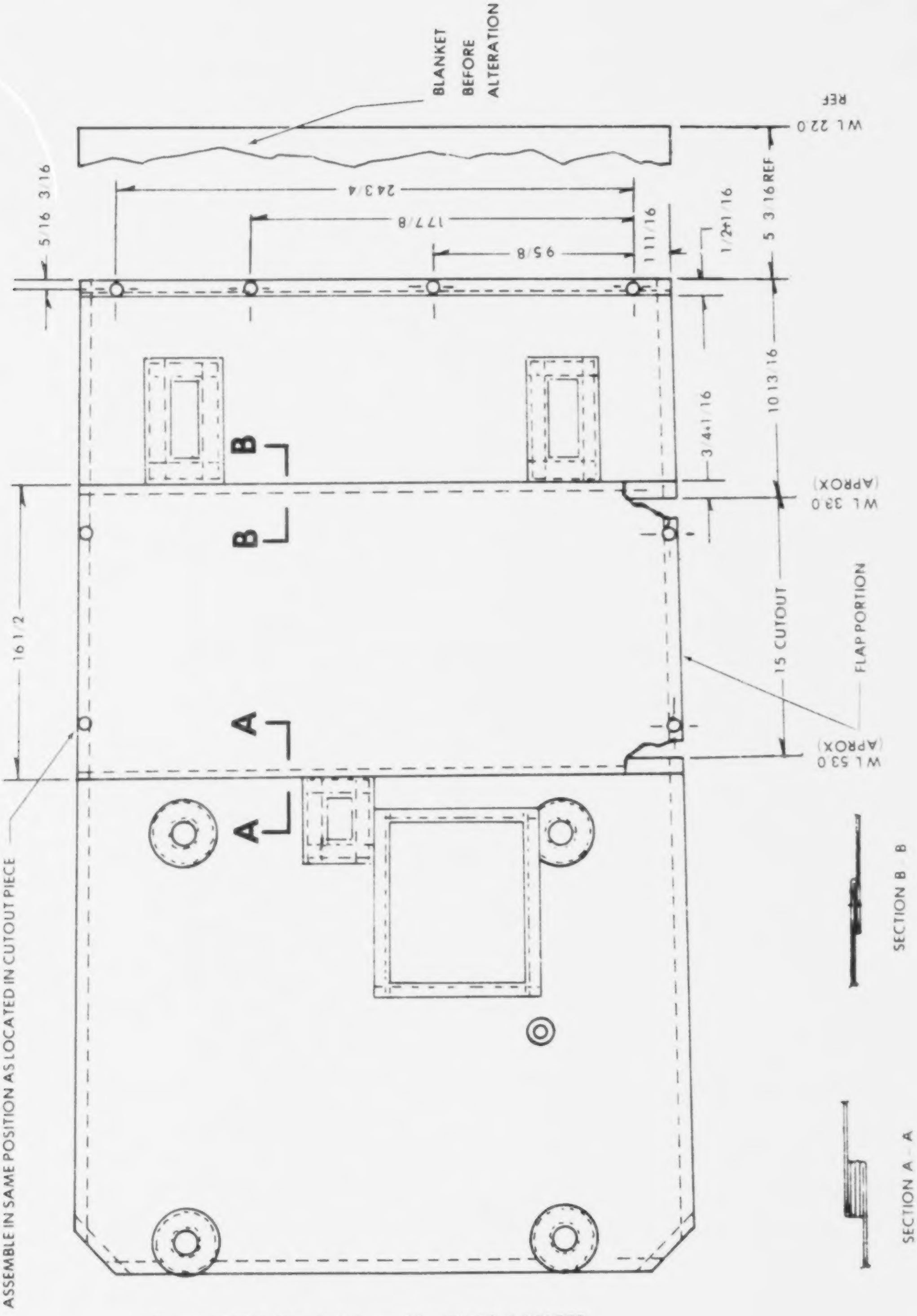

BLANKET BEFORE ALTERATION
WL 22.0 REF
24 3/4
17 7/8
9 5/8
1 11/16
1/2±1/16
5 3/16 REF
5/16
3/16
10 13/16
3/4±1/16
B
B
WL 33.0 (APPROX)
16 1/2
15 CUTOUT
FLAP PORTION
A
A
WL 53.0 (APPROX)
ASSEMBLE IN SAME POSITION AS LOCATED IN CUTOUT PIECE
SECTION B - B
SECTION A - A

Figure D-378. Blanket Assembly, PN ES-F-221752

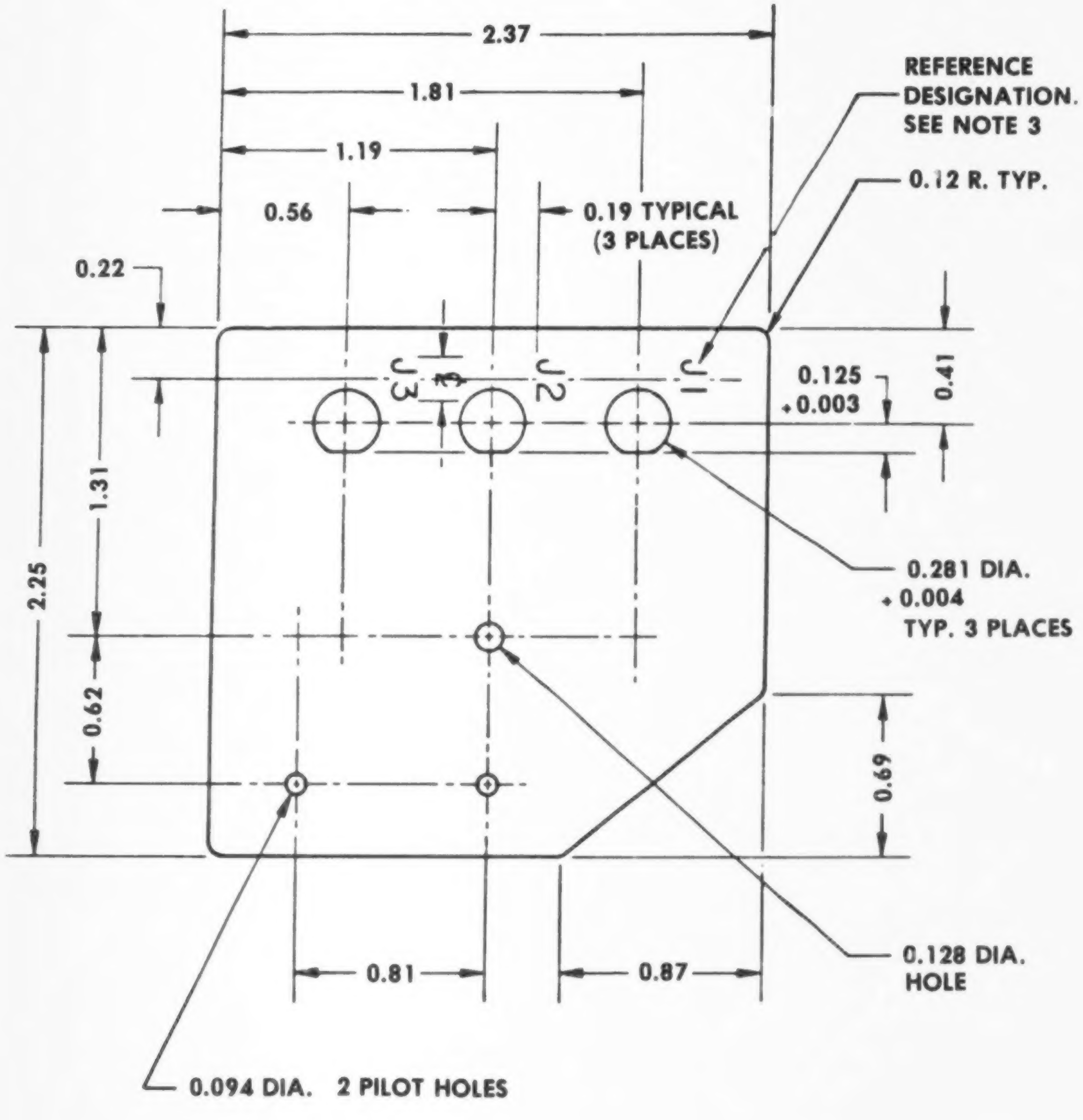
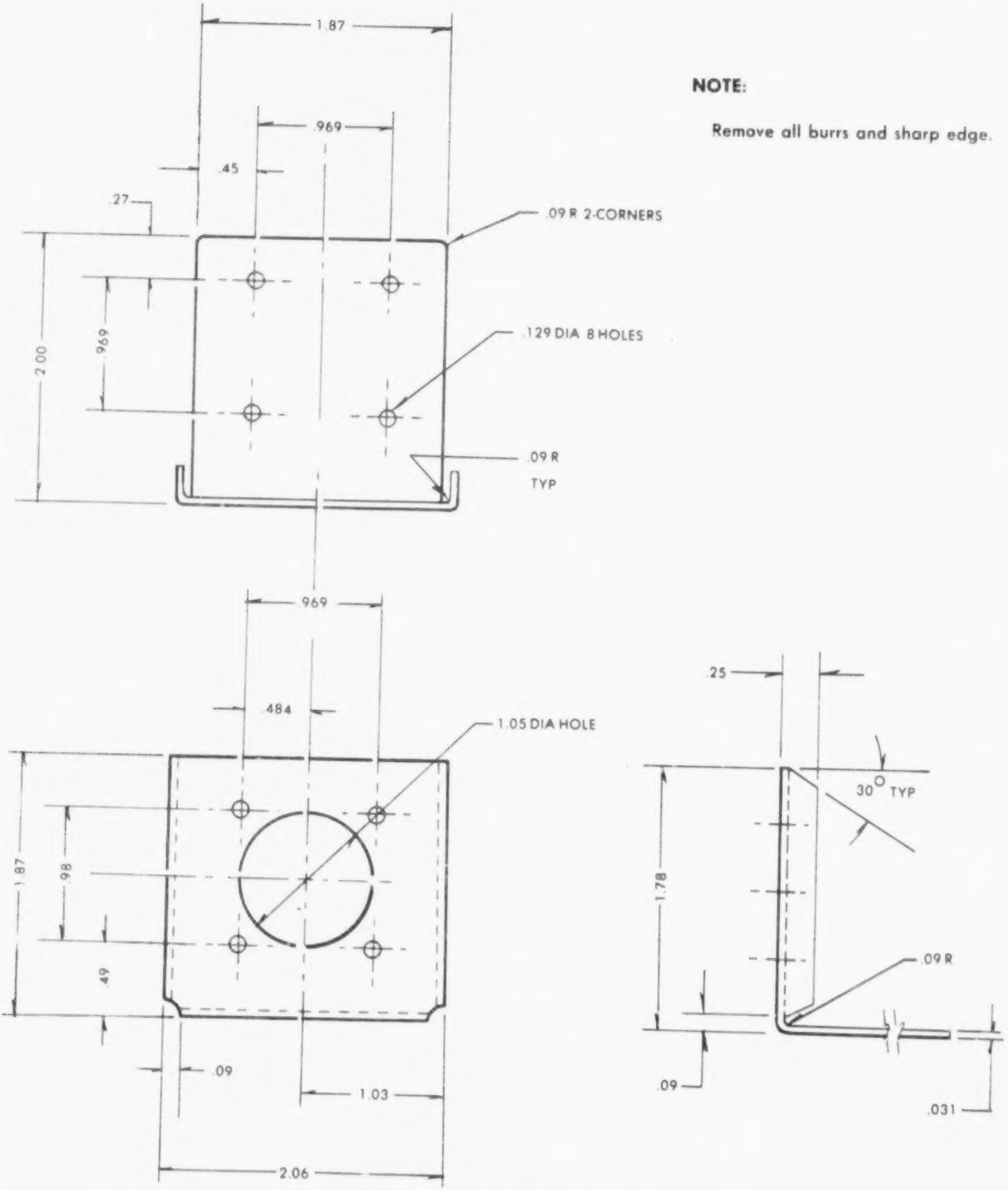

2.37
1.81
1.19
0.56
0.19 TYPICAL (3 PLACES)
0.22
REFERENCE DESIGNATION. SEE NOTE 3
0.12 R. TYP.
J3
℄
J2
J1
0.125 ±0.003
0.41
1.31
2.25
0.281 DIA. ±0.004 TYP. 3 PLACES
0.62
0.69
0.128 DIA. HOLE
0.81
0.87
0.094 DIA. 2 PILOT HOLES

Figure D-379. Bracket Angle PN ES-C-221739

Fabricate From: NSN 9535-00-232-0405
Material: Aluminum Alloy, 0.063 Thick, 2024-T3 per spec. QQ-A-250/5



1.87
.969
.45
.27
.09 R 2-CORNERS
.969
2.00
.129 DIA 8 HOLES
.09 R
TYP
.969
.484
1.05 DIA HOLE
1.87
.98
.49
.09
1.03
2.06
.25
30° TYP
1.78
.09 R
.09
.031

**NOTE:**

Remove all burrs and sharp edge.

Figure D-380. Support, Connector, PN ES-C-221709

Fabricate From: NSN 9535-00-167-2248
Material: .031 Thick Aluminum Alloy, 2024 Temper
T4 per spec. QQ-A-250/4

**NOTES:**

1. Plug Hole with lucite plug, glued in place with ketone
2. Characters to be 1/8" high unless otherwise specified to meet applicable requirements of spec. MIL-P-7788, Class 1-W.

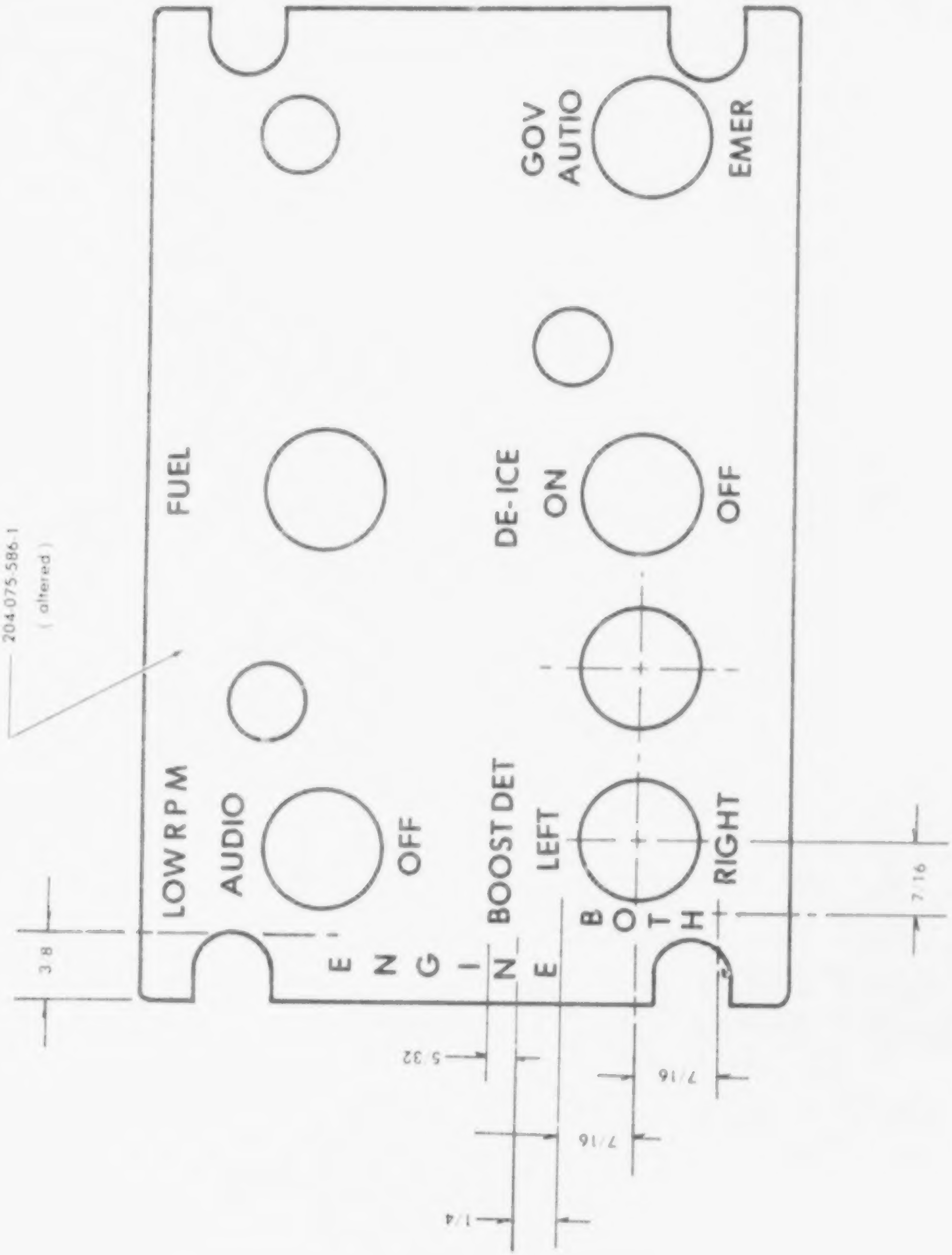

GOV
AUTIO
EMER
DE-ICE
ON
OFF
FUEL
LOW R P M
AUDIO
OFF
BOOST DET
LEFT
BOTH
RIGHT
ENGINE
204-075-586-1
( altered )
3/8
7/16
5/32
7/16
7/16
1/4

Figure D-381. Panel, Control PN ES-C-221569

Fabricate From: NSN 6110-01-063-3689

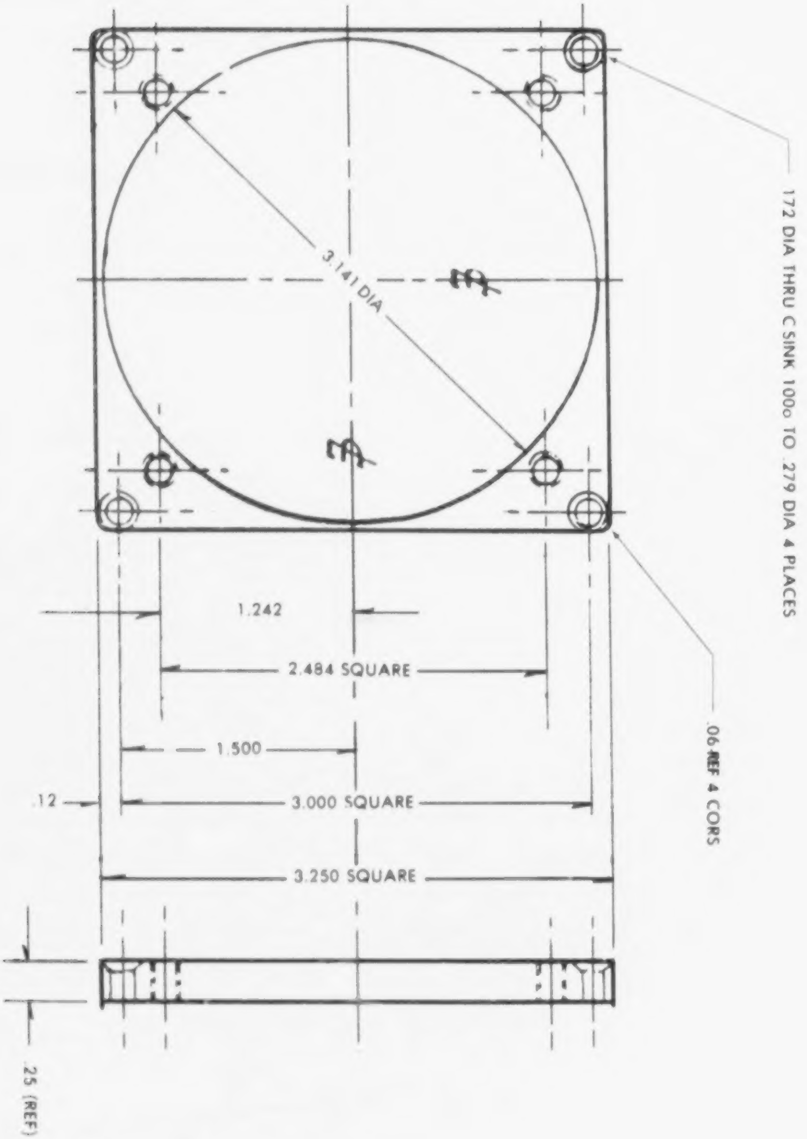

3.141 DIA
172 DIA THRU C SINK 100o TO .279 DIA 4 PLACES
1.242
2.484 SQUARE
1.500
.12
3.000 SQUARE
3.250 SQUARE
.06 REF 4 CORS
.25 (REF)

**Figure D-382. Plate, Mounting PN ES-C-221440**
Fabricate From: NSN 9535-00-085-4134, NSN 5340-00-815-4930
Material: Aluminum Alloy, .250 Thick, 2024-T3 per spec QQ-A-250/4

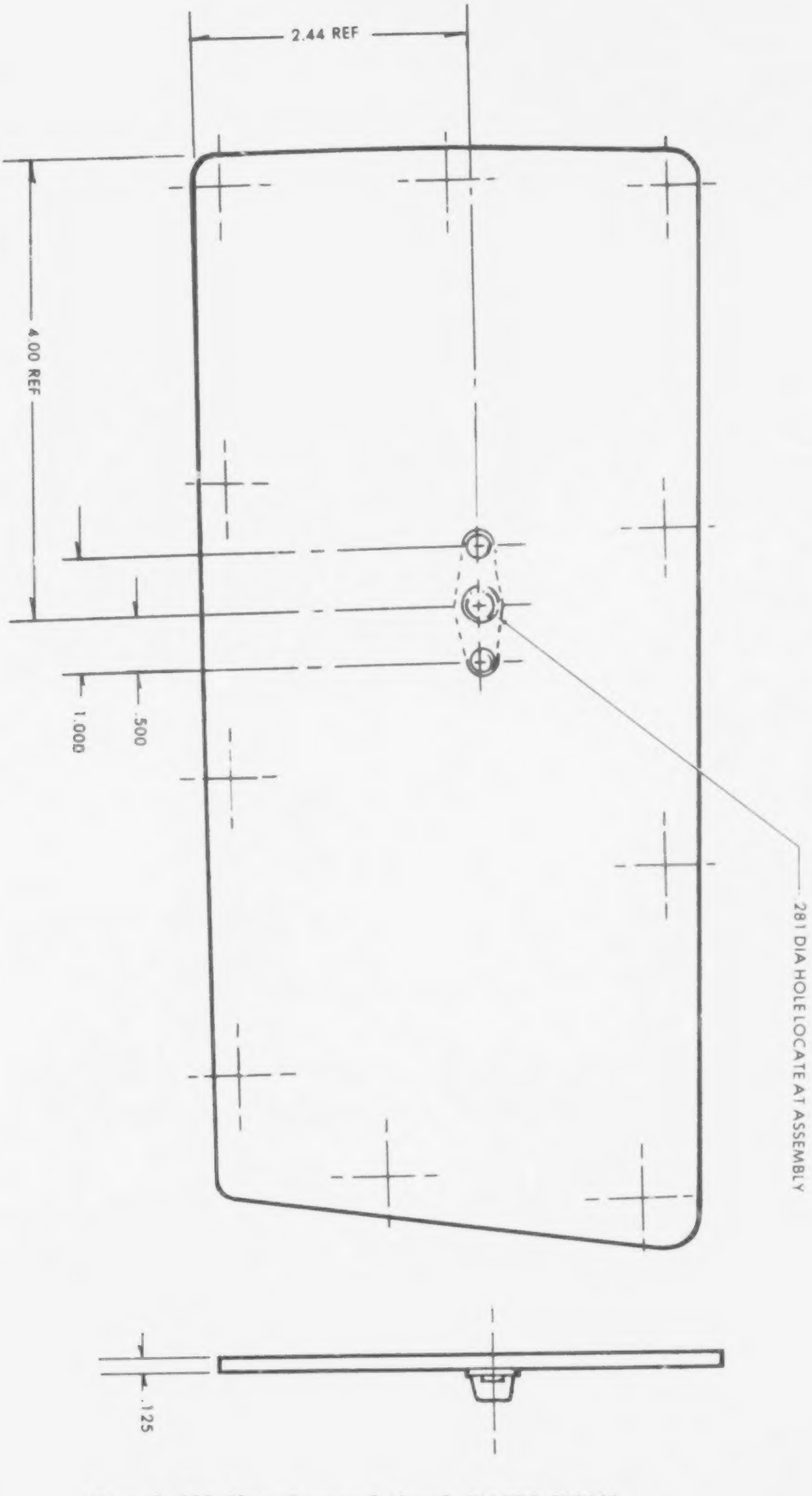

2.44 REF
4.00 REF
1.000
.500
.281 DIA HOLE LOCATE AT ASSEMBLY
.125

Figure D-383. Plate, Structural Aircraft, PN ESC-213928
Fabricate From: NSN 9535-00-085-4169
Material: Alum. Alloy, Sheet, 6061-T6, per QQ-A-250/11

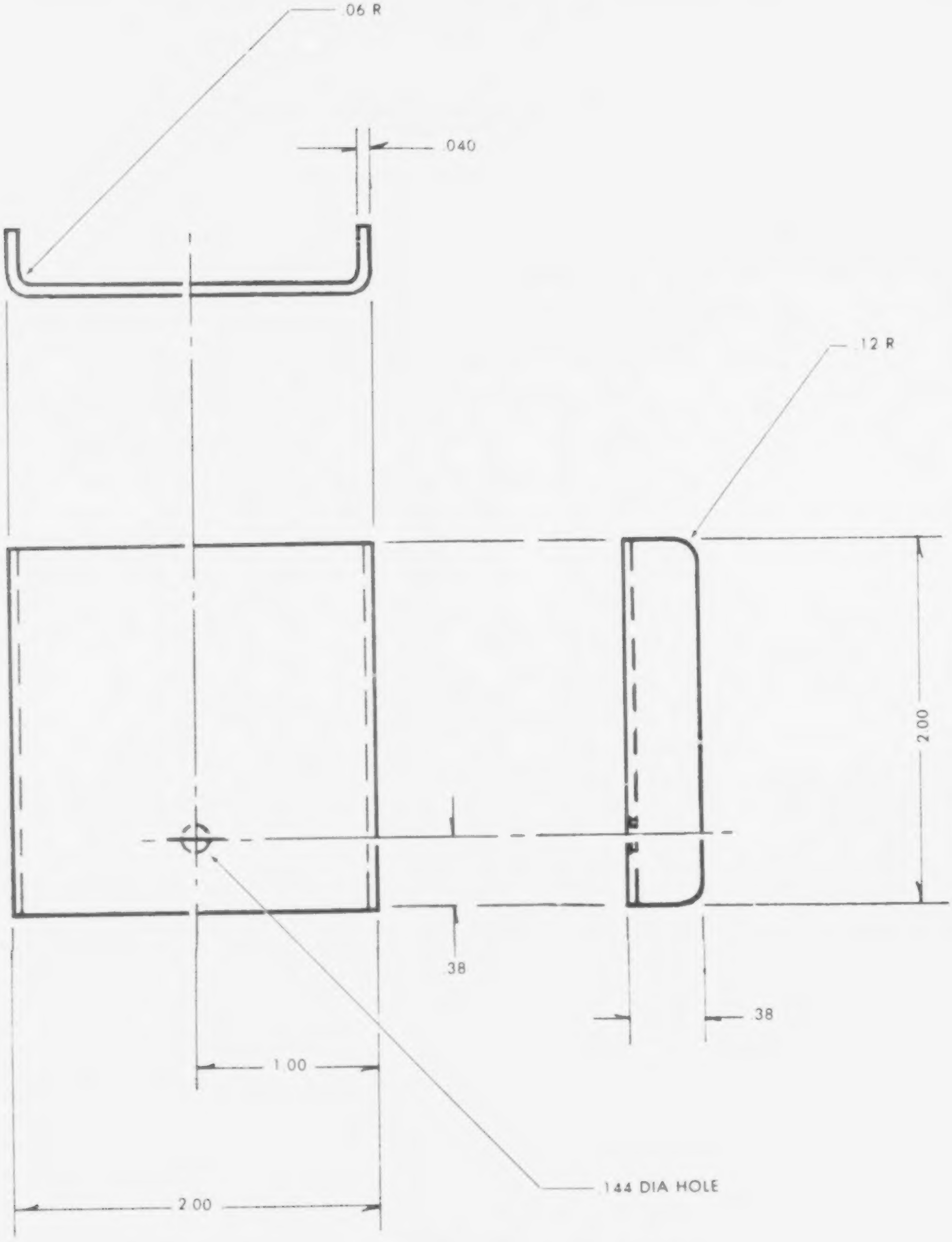

.06 R
.040
.12 R
2.00
.38
.38
1.00
.144 DIA HOLE
2.00

Figure D-384. Plate, Structural Aircraft PN ES-B-221712
Fabricate From: NSN 9535-00-084-4413
Material: Aluminum Alloy, 6061-T6 per QQ-A-250/11

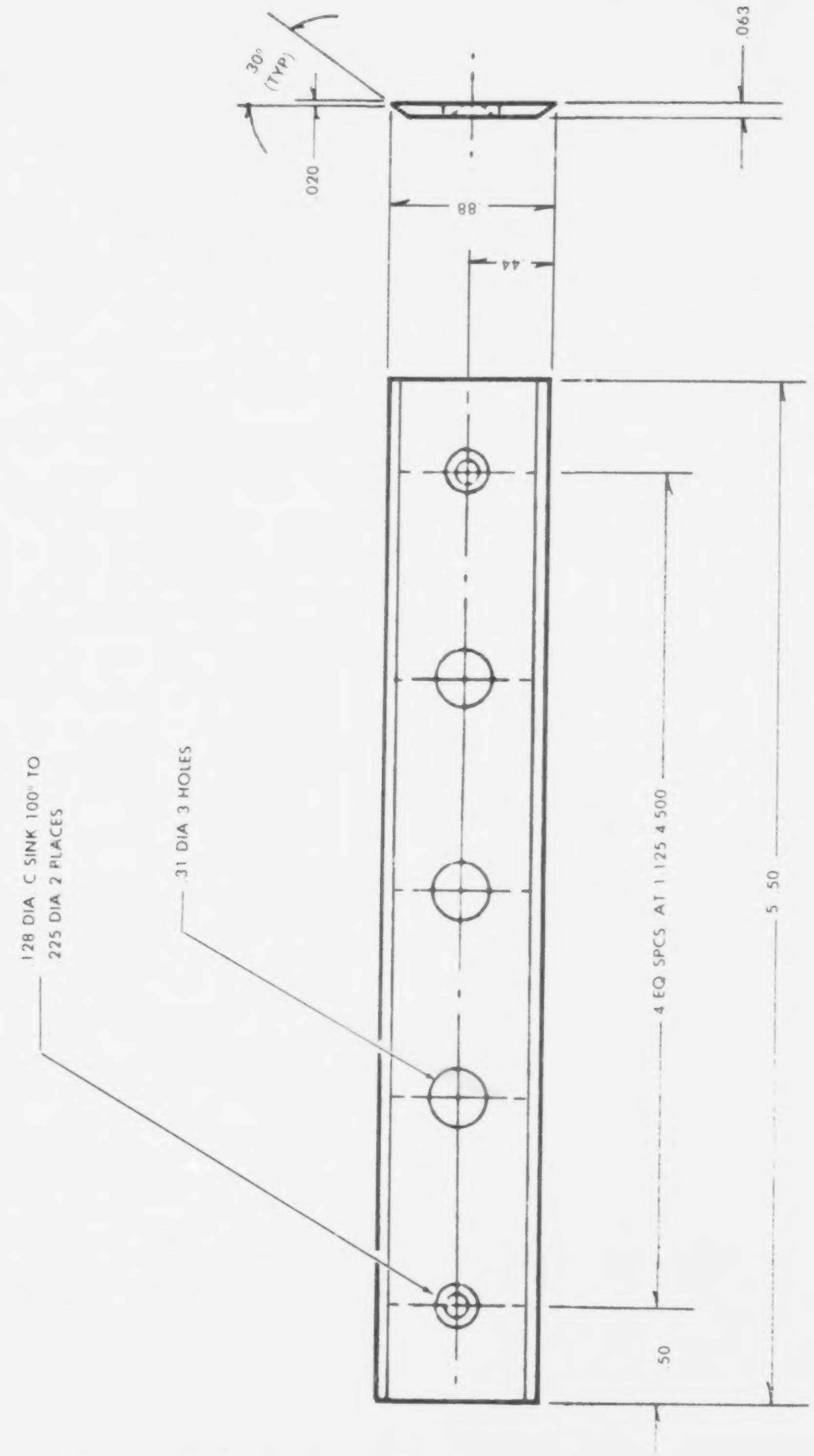

30°
(TYP)
.063
020
88
44
128 DIA C SINK 100° TO
225 DIA 2 PLACES
31 DIA 3 HOLES
4 EQ SPCS AT 1 125 4 500
5 50
50

Figure D-385. Spacer, Plate PN ES-B-221566
Fabricate From: 9535-00-232-1882
Material: Aluminum Alloy, 6061-T6, Sheet, per QQ-A-250/11

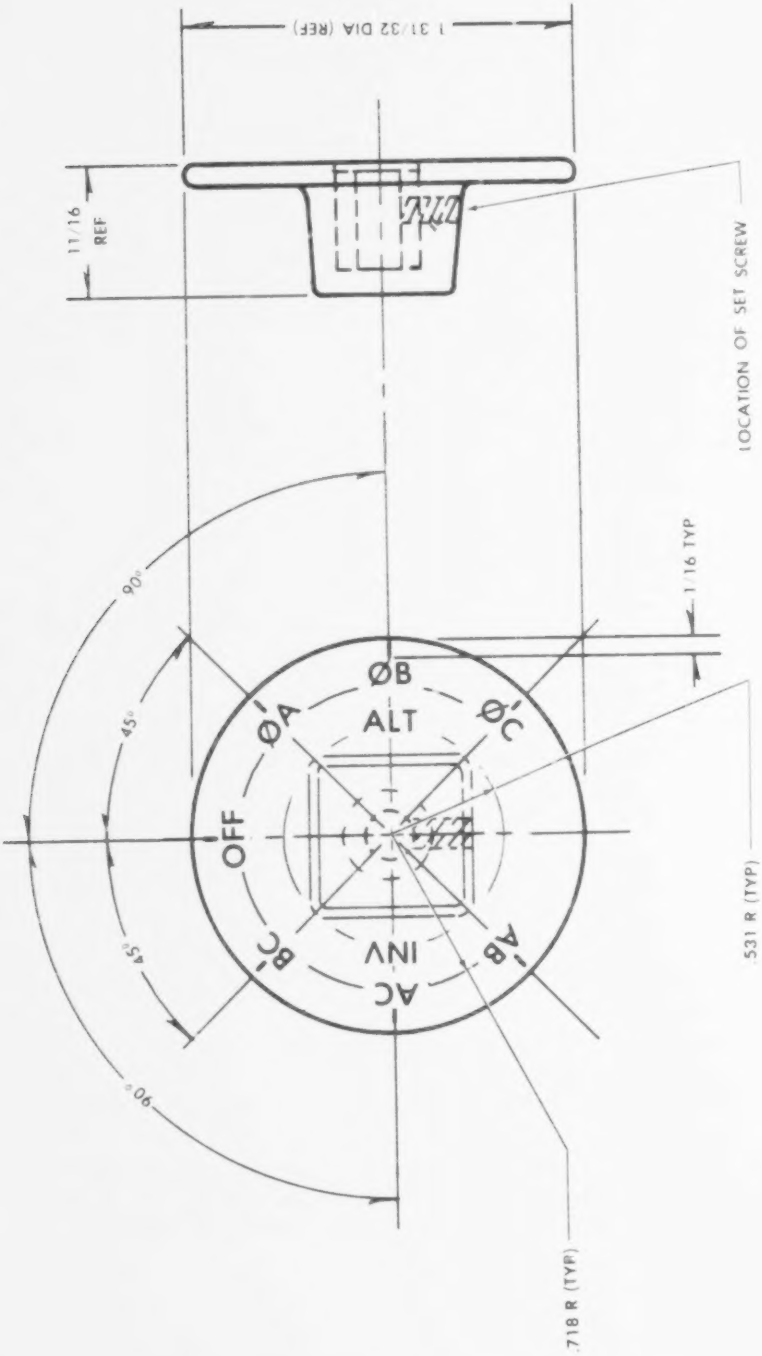

1 31/32 DIA (REF)
11/16 REF
LOCATION OF SET SCREW
1/16 TYP
.531 R (TYP)
.718 R (TYP)
90°
45°
45°
90°
ØB
ØA
ØC
ALT
OFF
INV
BC
AB
AC

Figure D-386. Knob Assy, Indicator PN ES-B-221427
Fabricate From: 1560-00-771-2502

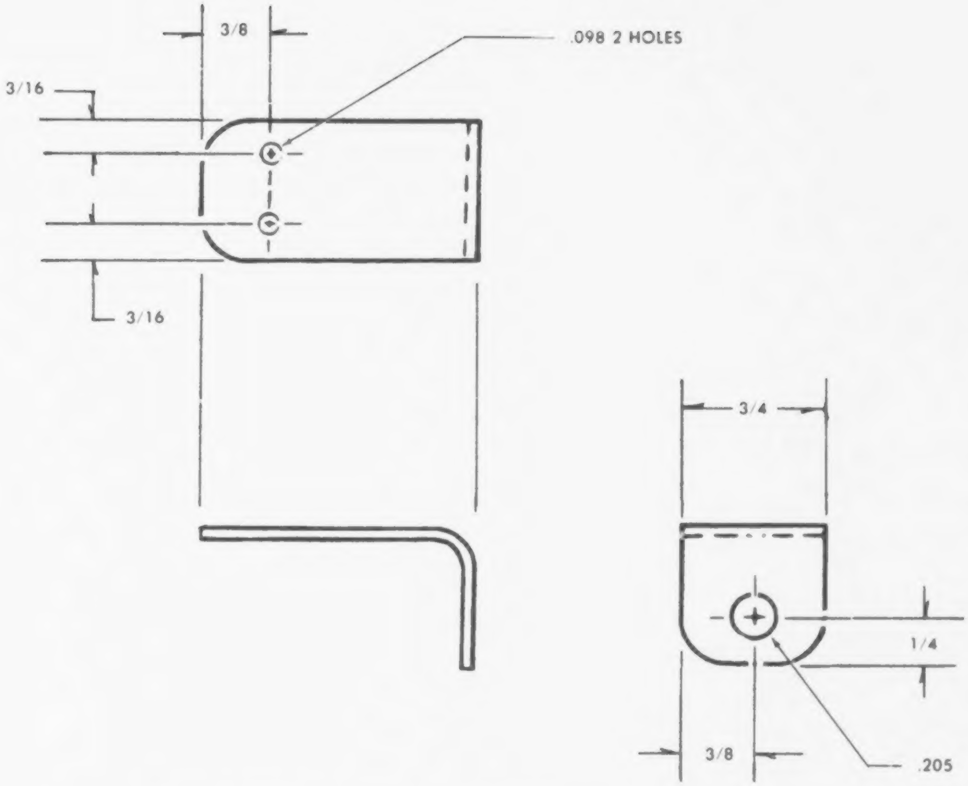

3/8
.098 2 HOLES
3/16
3/16
3/4
1/4
3/8
.205

Figure D-387. Bracket, Angle PN ES-B-220355
Fabricate From: 9535-00-232-0378
Material: .063 Aluminum Alloy, 2024-T3 per QQ-A-250/5

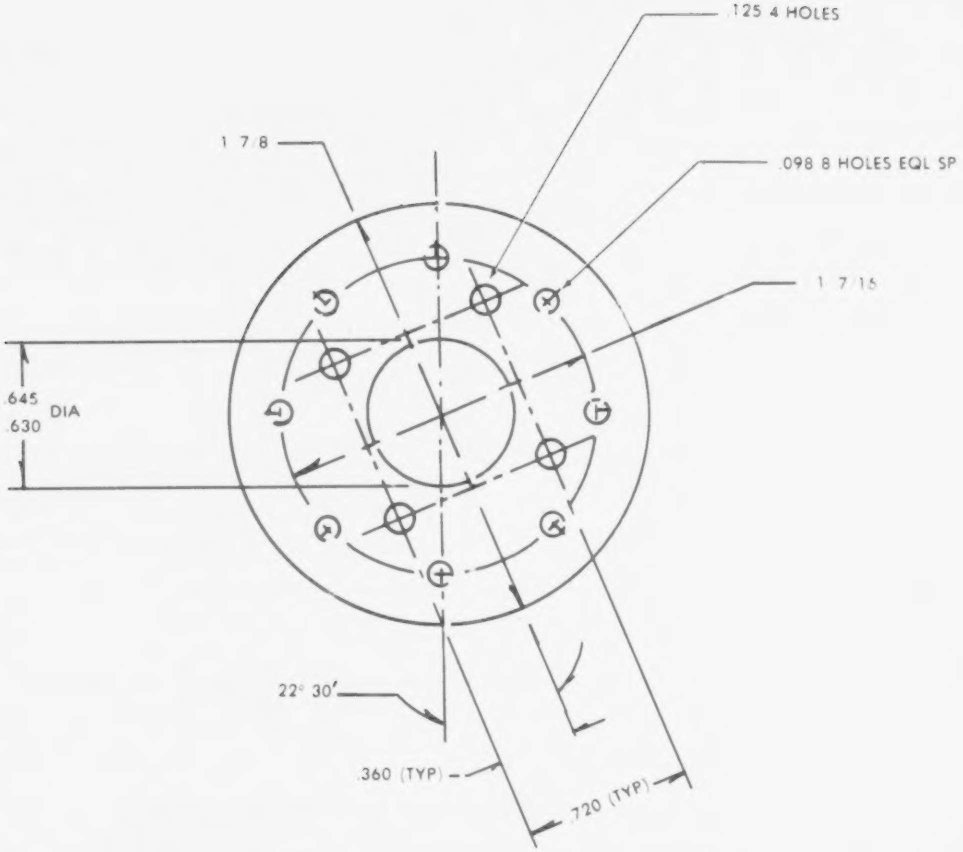

.125 4 HOLES
1 7/8
.098 8 HOLES EQL SP
1 7/16
.645
.630
DIA
22° 30'
.360 (TYP)
.720 (TYP)

**Figure D-388. Plate, Structural, Aircraft PN ES-B-220354**
Fabricate From: NSN 9535-00-232-0565
Material: .03ZX2X2 AL Aly 2024-T3 per QQ-A-250/5

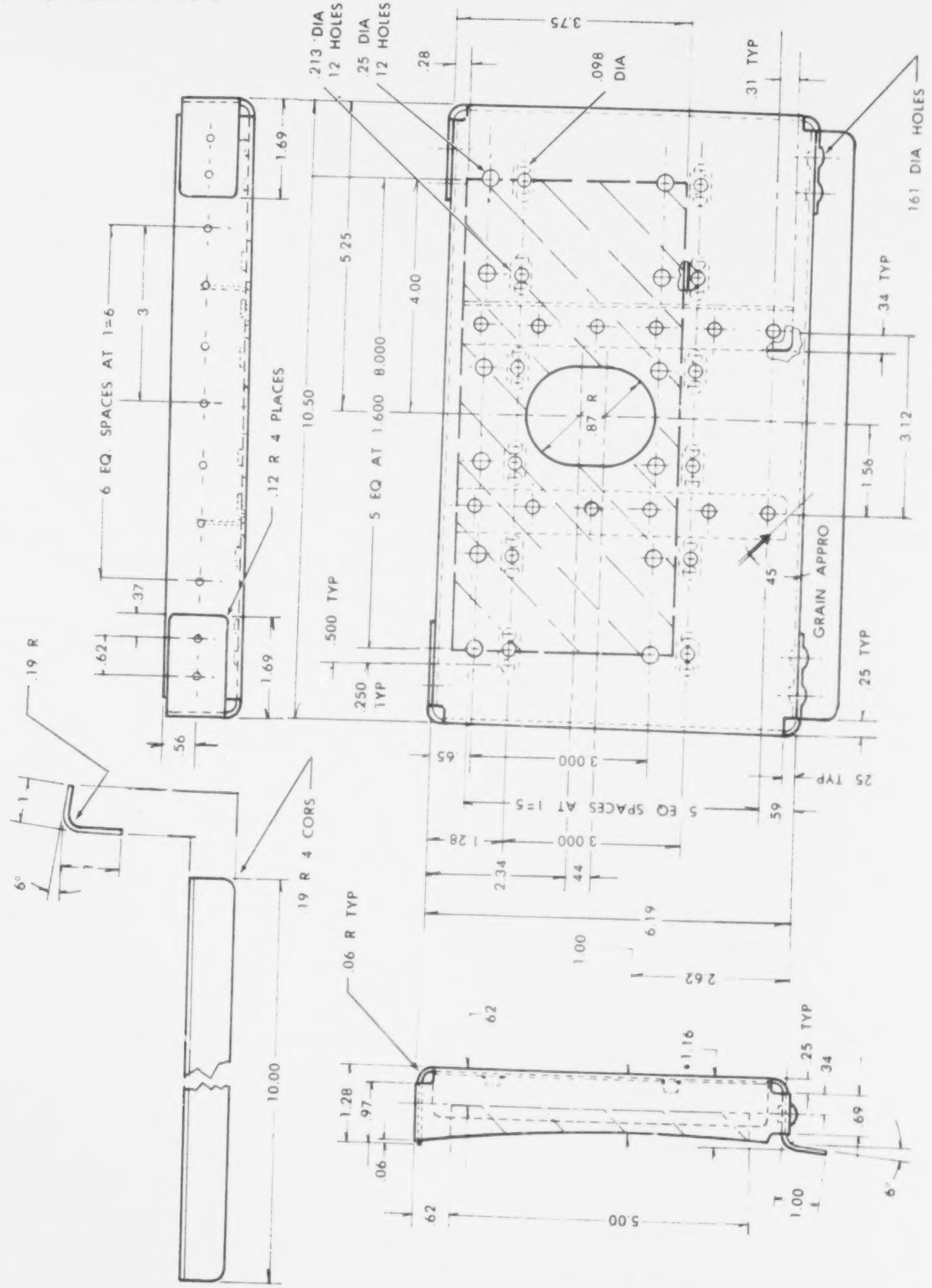

.213 DIA
12 HOLES
.25 DIA
12 HOLES
.28
3.75
.098
DIA
.31 TYP
.161 DIA HOLES
1.69
6 EQ. SPACES AT 1=6
3
5.25
4.00
10.50
5 EQ AT 1.600 8.000
.12 R 4 PLACES
.87 R
.34 TYP
3.12
1.56
45
GRAIN APPRO
.25 TYP
.500 TYP
.250
TYP
.37
.62
1.69
.56
.19 R
.1
6°
.19 R 4 CORS
.65
3.000
5 EQ SPACES AT 1=5
.25 TYP
.59
1.28
3.000
2.34
.44
6.19
1.00
2.62
.06 R TYP
.62
1.16
.25 TYP
.34
.69
1.28
.97
.06
.62
5.00
1.00
6°
10.00

Figure D-389 (sheet 1 of 2). B.I.T.E. Ant. Mtg. PN ES-D-221672
Material: Aluminum Aly., Sheet, .050 thick, 2024-T3, QQ-A-250/4

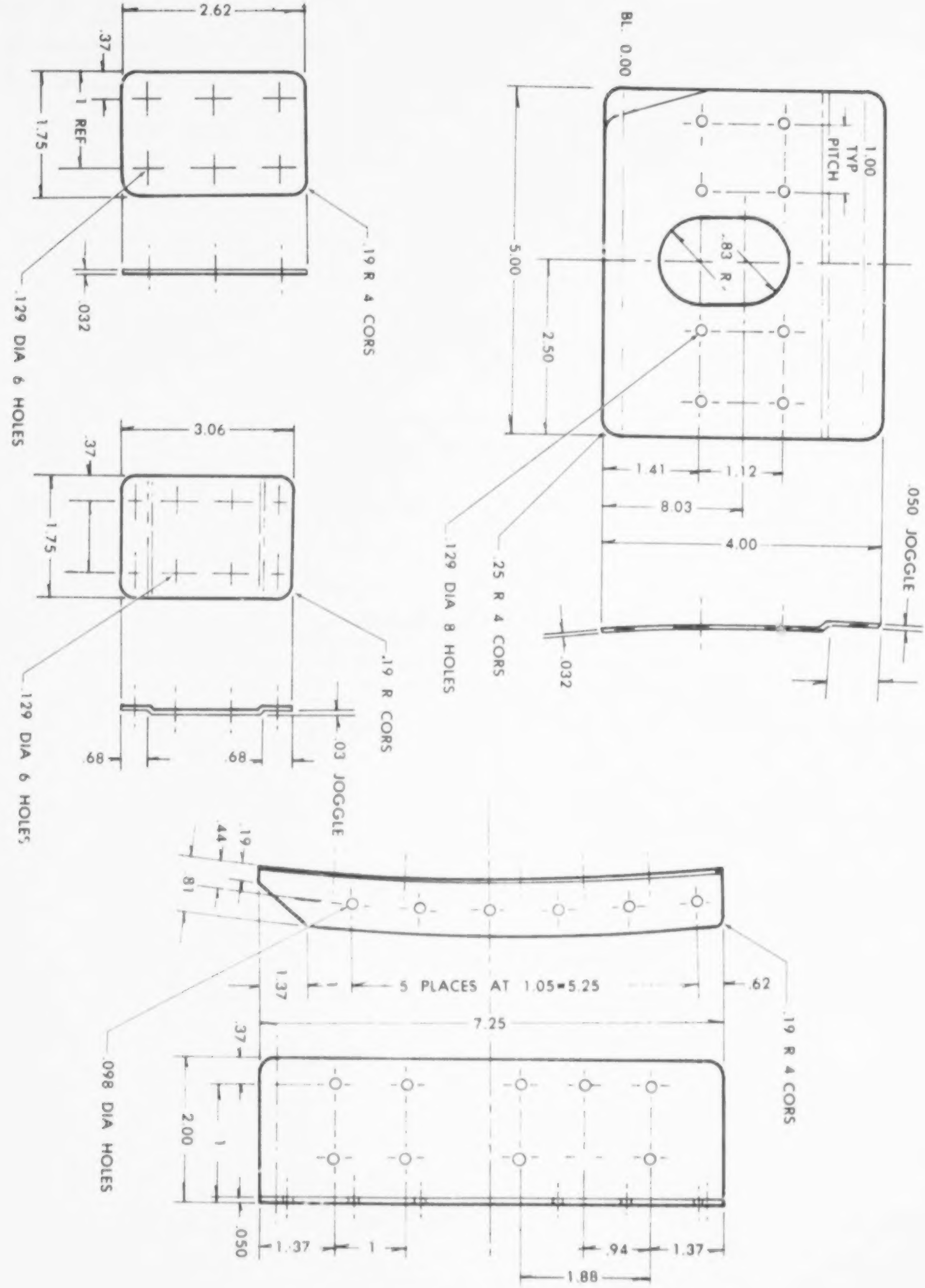
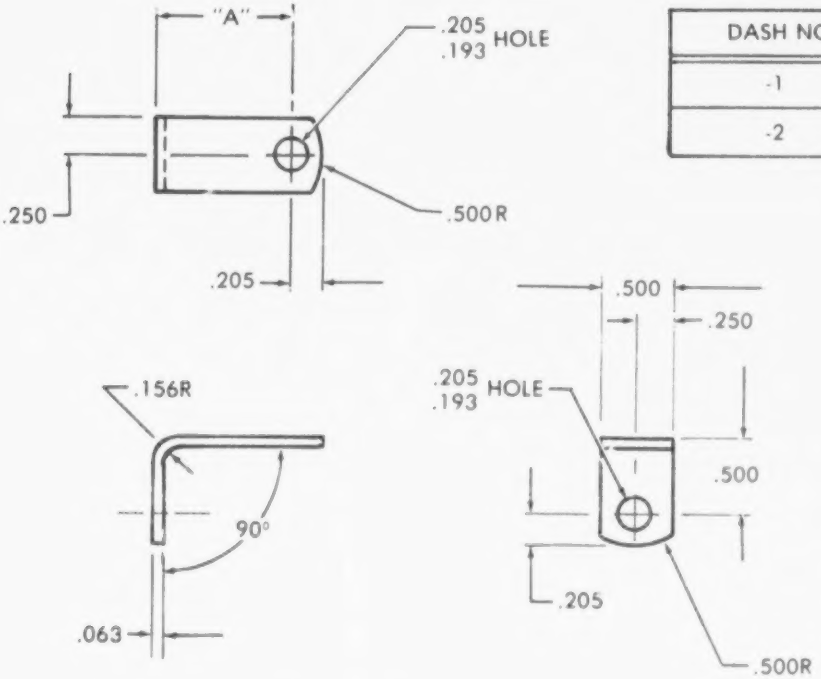
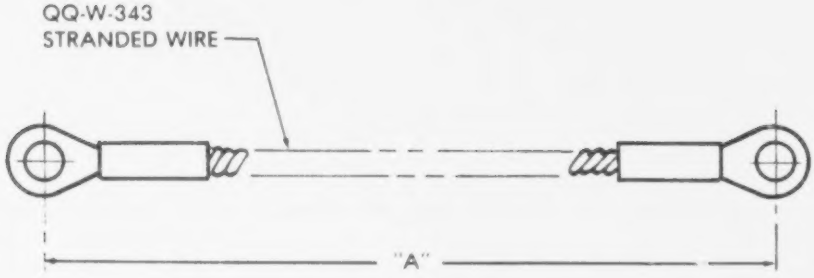

2.62
.37
1 REF
1.75
.032
.19 R 4 CORS
.129 DIA 6 HOLES
3.06
.37
1.75
.19 R CORS
.129 DIA 6 HOLES
.68
.68
.03 JOGGLE
BL 0.00
1.00 TYP PITCH
5.00
.83 R
2.50
1.41
1.12
8.03
4.00
.050 JOGGLE
.032
.129 DIA 8 HOLES
.25 R 4 CORS
.19
.44
.81
1.37
5 PLACES AT 1.05=5.25
.62
7.25
.37
2.00
1
.050
1.37
1
.94
1.37
1.88
.098 DIA HOLES
.19 R 4 CORS

Figure D-389 (sheet 2 of 2). B.I.T.E., Ant., Mtg. PN ES-D-221672


"A"
.205
.193 HOLE
.250
.500R
.205
.500
.250
.156R
.205
.193 HOLE
90°
.500
.063
.205
.500R

| DASH NO. | DIM "A" |
|---|---|
| -1 | .875 |
| -2 | .375 |

Figure D-390. Bracket, Angle PN ES-B-220311
Fabricate From: NSN 9535-00-232-0378
Material: .063 AL. Alloy 2024-T3 per QQ-A-250/5



| DASH NO. | DIM "A" |
|---|---|
| 1 | 4¼ |
| 2 | 6 |
| 3 | 5½ |
| 4 | 7½ |

Figure D-391. Cable Assy, Special Purpose, Electrical PN ES-B-220309
Fabricate From: NSN 6145-00-236-9503 and 5940-00-143-4794
Material: Wire, Tinned, Soft, Type RB Class M and Terminal, Lug, Crimp Style

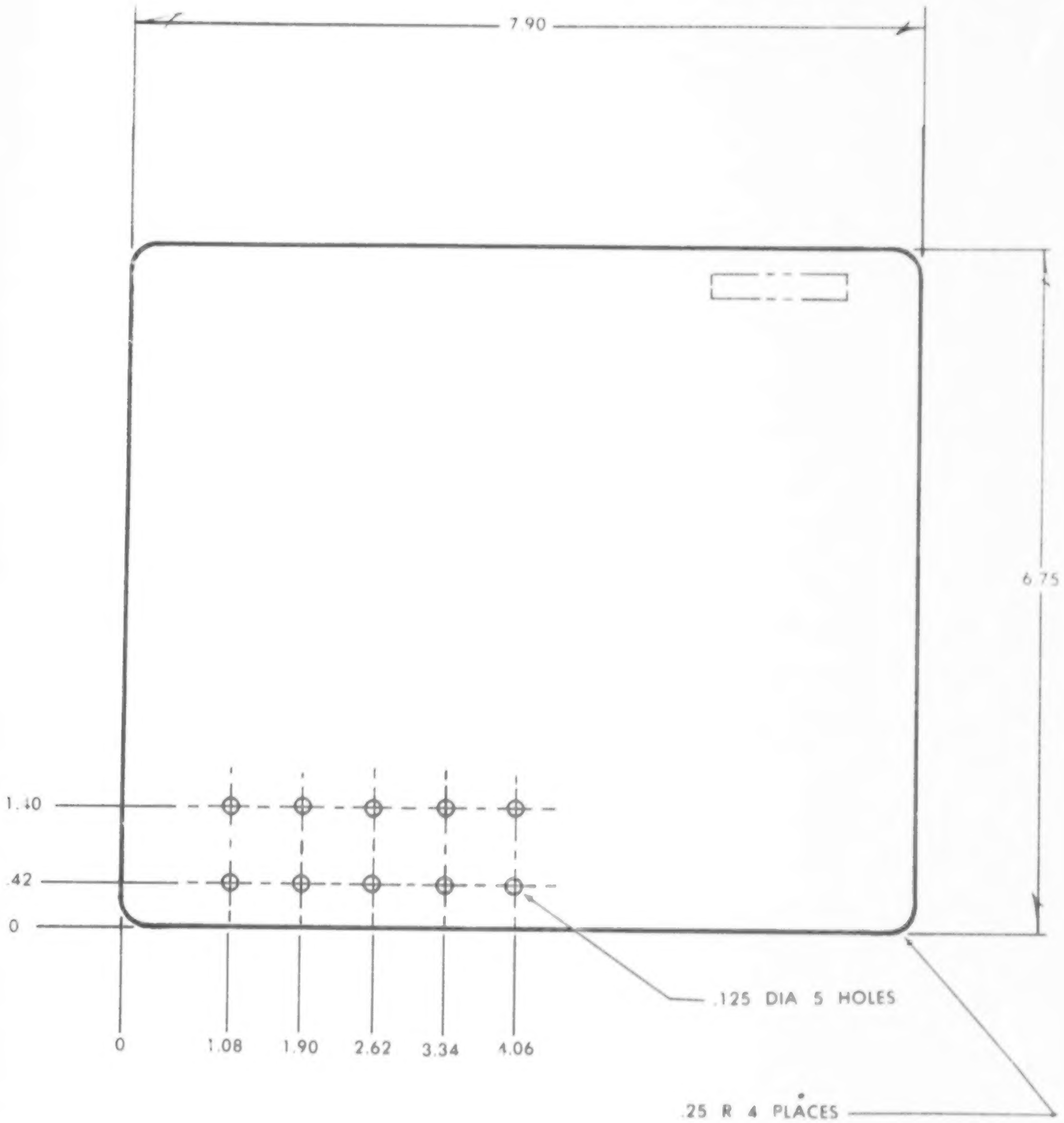

7.90
6.75
1.40
.42
0
0
1.08
1.90
2.62
3.34
4.06
.125 DIA 5 HOLES
.25 R 4 PLACES

**Figure D-392. Plate, Reinforcing, DF Ant., Rear PN 5065698**
Fabricate From: NSN 9535-00-232-1882
Material: AL. Aloy, 6061-T6, .032 THK, QQ-A-250/11

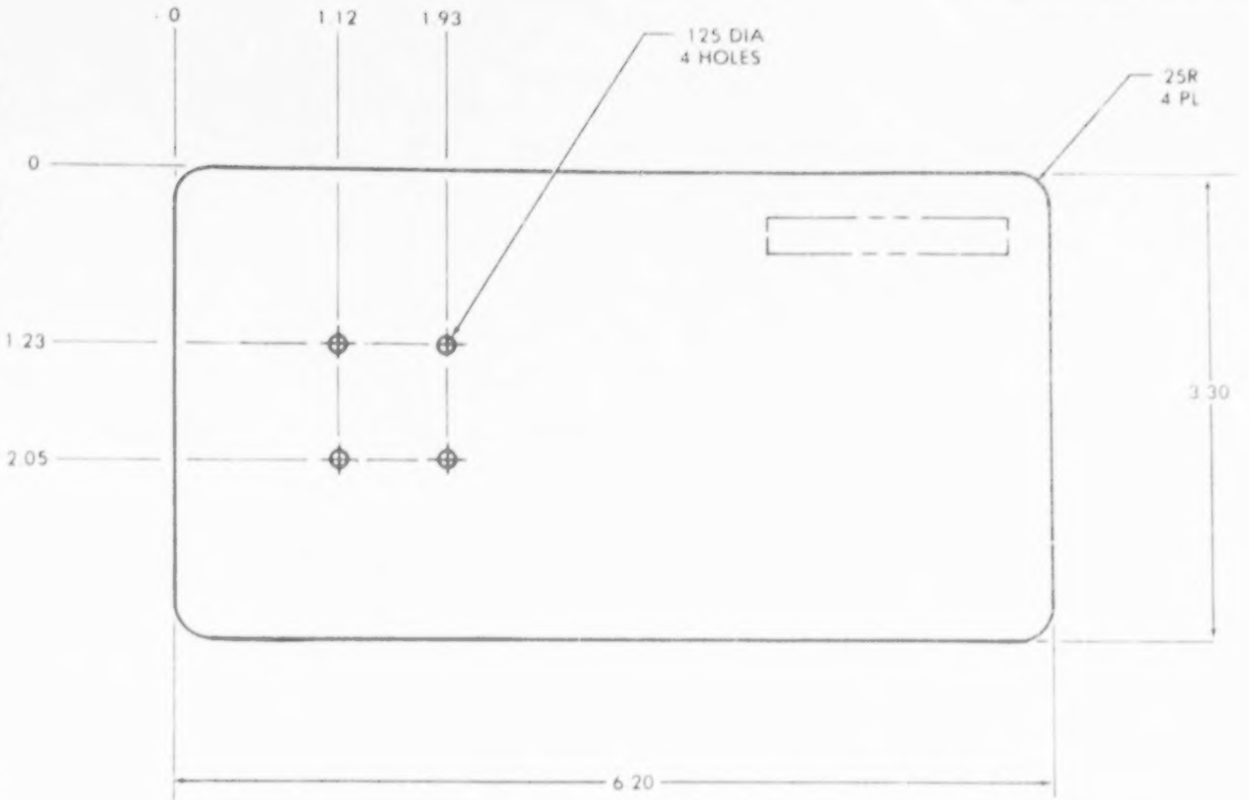
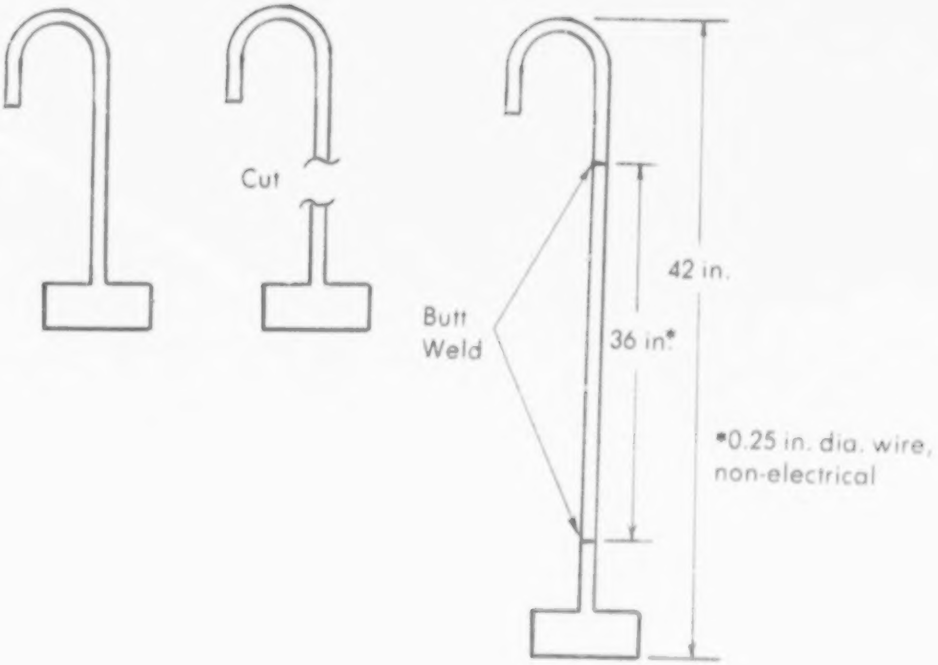

0
1.12
1.93
.125 DIA
4 HOLES
.25R
4 PL
0
1.23
2.05
3.30
6.20

Figure D-393 Plate, Doubler, Forward PN 5065696
Fabricate from: NSN 9535-00-084-4448
Material: AL Alloy, 6061-T6, .062 THK, QQ-Q-250/11


Cut
Butt Weld
42 in.
36 in.*
*0.25 in. dia. wire, non-electrical

PART NUMBER: HM-1 FSCM: 81996

FABRICATE FROM: P/N SW1961-2, NSN 1730-00-427-7939

FABRICATION INSTRUCTIONS: CUT TIE-DOWN IN HALF. WELD 36 INCH PIECE OF 0.25 INCH DIAMETER WIRE, NONELECTRICAL, ANNEALED, P/N C120917, NSN 9525-00-167-1817 ON EACH HALF OF MAIN ROTOR BLADE TIE-DOWN.

FIGURE D-394 MAIN ROTOR BLADE TIE DOWN AFTER HUB SPRING INCORPORATION

# APPENDIX E

## STORAGE OF AIRCRAFT

### SECTION I. GENERAL INFORMATION

E-1. PURPOSE.

NOTE

> Aircraft that are inactive for seven or more consecutive days must be placed in storage.

This chapter provides detailed preparation procedures to place the helicopter in storage for a period of six months or less, the inspection requirements during storage, and the necessary depreservation procedures to activate the helicopter after storage. The categories of storage are:

a. Flyable Storage (no time limit). This implies maintaining the helicopter in operable condition and will entail mooring helicopter, installing protective covers, and a daily inspection plus ground runup every fourteen days.

b. Short Term Storage (1-45 days). This type storage includes a ground runup, preservation of the engine fuel system, oil system, and exposed helicopter components together with removal of classified communications equipment, battery, clock, fire extinguishers, and first aid kit. The helicopter will be moored, protective covers will be installed, and a daily inspection will be performed every seven days.

c. Intermediate Storage (46-180 days). This category of storage will include all requirements of Short Term Storage. In addition, the fuel system will be preserved and a corrosion control program established.

E-2. STORAGE RESPONSIBILITY.

The local maintenance officer shall be responsible for processing the helicopter for storage taking into consideration the anticipated duration of storage and local climatic conditions.

a. Records. The processing organization shall be responsible for performing a receiving check of the helicopter and for the records-keeping requirements during storage. For forms used for equipment inventory refer to DA PAM 738-751 Army Maintenance Management System.

b. Removed Equipment. Equipment and components removed from the helicopter as part of storage procedures shall be stored and records maintained in accordance with current supply directives.

NOTE

> Any component removed because of accident or materiel failure shall not be preserved but shall be shipped in the present condition.

c. Classified Equipment. Removal of classified equipment other than communications equipment shall be discretionary with the Commanding Officer. His decision will be based on consideration of local storage facilities, climatic conditions affecting deterioration or corrosion, and manhours required to remove and reinstall such equipment. Appropriate security measures shall be taken for all classified equipment either removed or left installed.

## E-3. INSPECTION OF STORED HELICOPTERS.

Aviation unit maintenance officer shall be responsible for establishing an inspection program to ensure that the helicopter remains properly preserved. Helicopters in Flyable Storage will have a daily inspection and runup performed at least once every fourteen days. Helicopters in Short Term or Intermediate Storage shall be inspected for corrosion every 15 days where relative humidity exceeds 40%. Helicopters in any storage shall be inspected for condition of protective coverings whenever they have experienced high winds (exceeding 40 mph). In addition, the following general inspection procedures apply to all types of storage:

a. Provide adequate helicopter ventilation and perservation. Determine cockpit temperatures by thermometer, and when in excess of 135°F (57°C), ventilate to prevent condensation and mildew.

b. Check that all fuselage, wings, center section, control surfaces, and empennage drain holes are open.

c. If covers are used, check that they are not accumulating water. Provide drains if necessary. Replace damaged or deteriorated covers.

d. Regularly inspect and treat for corrosion as necessary. Inspection frequency will be determined by local humidity conditions. Close attention should be given to areas where moisture does not evaporate readily. Evidence of corrosion will not be as obvious on painted surfaces as it is on bare metal; however, corrosion can attack metal through paint and will be indicated by blisters or scaly appearance of paint.

e. Inspect static ground wires, tie-down straps and mooring devices (rope, cables, rods, or eyes) at regular intervals but immediately after being subjected to winds exceeding 40 mph. Replace deformed or deteriorated ground wires or mooring devices and tiedown straps.

f. Inspect communications equipment for fungus and corrosion. At the first indication of deterioration, remove, clean, preserve, and package any affected components to comply with MIL-P-116. Stow these items in the helicopter from which removed.

g. Enter inspection date in the helicopter Log Book.

## SECTION II. FLYABLE STORAGE

### E-4. INSPECTION PRIOR TO FLYABLE STORAGE.

Helicopters in this storage category shall be maintained in a serviceable condition. Perform Daily Inspection (PMD cards) prior to accomplishing the requirements of subsequent paragraphs. Enter the date and type storage in the helicopter log book.

NOTE

**The general requirements in Section I are applicable.**

### E-5. PRESERVATION.

a. Power-train.

(1) Check the power-train lubrication system including sight gages. Service the system in accordance with Chapter 1.

(2) The preservation run up prescribed in paragraph E-5b completes the preservation of transmission and gearboxes.

**b. Engine.**

**WARNING**

**Cleaning materials are flammable and toxic. Avoid skin contact and breathing of solvent vapors.**

(1) Use every precaution to keep the engine and accessories clean. Keep the air intake duct, plenum chamber, and compressor inlet screens clean and free of any foreign materials. Use solvent (C261) to clean external surfaces.

(2) Start engine in accordance with the Operator's Manual.

NOTE

**This runup may be omitted if the helicopter has been operated within the past fourteen days and is know to be dry.**

(3) Limit the run to that necessary to stabilize engine temperatures.

(4) Shutdown engine in accordance with the Operator's Manual.

(5) After engine cools, install engine inlet and exhaust protective covers. If these are not available, seal the openings with barrier material (C115) and secure with tape (C279).

(6) Cover additional engine cowling openings as in step (5) above.

(7) Record in the helicopter log book the date helicopter was placed in Flyable Storage.

c. **Hydraulic System.** Check the hydraulic reservoir and fill as necessary with hydraulic fluid (C131).

d. **Fuel System.** Service fuel tanks to normal capacity after each engine runup. Drain water from fuel tanks before adding fuel.

**NOTE**

**Full tanks minimize fuel contamination by condensation. The maintenance officer shall determine the interval of periodic drainage.**

e. Battery.

(1) Check that all cockpit switches are OFF.

(2) Clean the battery as necessary, but leave it in the helicopter unless the temperature is expected to be colder than -40 degrees F (-40 degrees C).

(3) Service the battery in accordance with TM 11-6140-203-14-2.

f. Airframe.

(1) Install pitot tube cover or wrap pitot tube with barrier material (C115) and secure with tape (C279).

(2) Disengage circuit breakers.

(3) Close all doors and windows.

(4) Install static ground wire.

(5) Install helicopter shipping and storage cover (flyable configuration), if available, in accordance with instructions accompanying covers.

## E-6. MAINTENANCE OF PRESERVATION DURING FLYABLE STORAGE.

a. Helicopter shall be inspected in accordance with local directives and requirements of preceding paragraph E-3.

b. A preventive daily inspection in accordance with PMD cards, together with an engine runup in accordance with paragraph E-5b will be performed at least every fourteen days.

## E-7. DEPRESERVATION AFTER FLYABLE STORAGE.

a. Remove protective covers, clean, and return to storage.

**WARNING**

**Cleaning materials are flammable and toxic. Avoid skin contact and breathing of solvent vapors.**

b. Remove all barrier material and tape. Remove tape residue with solvent, (C261).

c. Clean helicopter as necessary in accordance with Chapter 1.

d. Open all doors and windows for ventilation.

e. Remove all tiedowns.

f. Perform preventive maintenance daily inspections in accordance with PMD cards.

g. Remove and stow static ground wire.

h. Indicate on helicopter maintenance records that it has been depreserved and removed from storage.

# SECTION III. SHORT TERM STORAGE

## E-8. INSPECTION PRIOR TO STORAGE.

**NOTE**

The general requirements of Section I are a part of these procedures.

a. Ensure that all removed components are preserved and stowed within the helicopter in suitable containers.

b. Record all removed or disconnected parts in the helicopter maintenance records.

**WARNING**

**Cleaning materials are flammable and toxic. Avoid skin contact and breathing of solvent vapors.**

c. Bolts, washers, nuts, and other hardware which are removed during disassembly should be coated with a light coat of corrosion preventive compound (C86) and reinstalled as removed from the major component unless otherwise specified.

d. Check fuel, oil, and hydraulic lines/hoses for leakage.

e. Lubricate the helicopter for the 50 hour interval in accordance with Chapter 1.

f. Record the date and type of storage in the helicopter records.

## E-9. PRESERVATION.

a. Power-train.

**WARNING**

**Cleaning materials are flammable and toxic. Avoid skin contact and breathing of solvent vapors.**

(1) Clean the exposed bare metal surfaces with a clean cloth dampened with solvent (C261) and coat with corrosion preventive compound (C86).

(2) Add corrosion preventive concentrate (C83) to gearboxes and engine in the quantity specified in TB 55-9150-200-24.

**NOTE**

**Flushing engine and power-train gearboxes is not required after adding corrosion preventive concentrate (C83).**

(3) Check power-train lubrication levels including sight gages and service in accordance with Chapter 1.

(4) Start engine in accordance with Operator's Manual and run at least five minutes or until normal operating temperature is reached.

(5) Shut down engine in accordance with Operator's Manual. This completes preservation of transmission and gearboxes.

(6) If engine is inoperable, preserve power-train as follows:

(a) Remove main rotor blades in accordance with Chapter 5.

(b) Remove mast assembly in accordance with Chapter 6.

(c) Spray inside of transmission through top opening with one gallon of oil (C166 or C168). While spraying, manually rotate internal gears and bearings with input drive quills.

(d) Reinstall mast assembly in accordance with Chapter 5.

**WARNING**

**Cleaning materials are flammable and toxic. Avoid skin contact and breathing of solvent vapors.**

(e) Apply fingerprint remover (C88) to all unpainted surfaces of mast assembly. Remove residue with solvent (C261) on a clean cloth.

(f) Apply corrosion preventive compound (C86) to all unpainted surfaces.

(g) Reinstall main rotor in accordance with Chapter 5.

(h) Ensure 42 and 90 degree gearboxes have been filled with operating oil (C166 or C168) to the proper operating level.

(7) Cover breather holes in gearboxes and transmission with barrier material (C115) and secure with tape (C279).

b. **Engine. (Operable).**

**WARNING**

**Cleaning materials are flammable and toxic. Avoid skin contact and breathing of solvent vapors.**

**(1)** Use every precaution to keep engine and its accessories clean. Keep air intake screens, plenum chambers, and compressor inlet screens clean and free of foreign material. Use solvent (C261) for general cleanup.

**WARNING**

**Cleaning materials are flammable and toxic. Avoid skin contact and breathing of solvent vapors.**

**(2)** Check oil level; service as required in accordance with Chapter 1. Remove any spilled oil on painted surfaces with a clean cloth dampened with solvent (C261).

**CAUTION**

**To prevent accidental firing of the engine ensure IGNITION SYSTEM IGNITER SOLENOID circuit breaker is open (Pulled out.)**

**(3)** Disengage ignition system igniter solenoid circuit breaker.

**WARNING**

**Cleaning materials are flammable and toxic. Avoid skin contact and breathing of solvent vapors.**

**(4)** Remove fuel inlet and pump discharge strainers from fuel control. Clean with solvent (C261) and reinstall. Replace servo supply filter.

**(5)** Disconnect main fuel hose from main fuel manifold and starting fuel hose from starting fuel solenoid valve on T53-L-11 series engines.

**(6)** Disconnect main fuel hose from flow-divider assembly and starting fuel hose from starting fuel solenoid valve on T53-L-13 engines.

**(7)** Install temporary lines on ends of hoses to allow drainage into a suitable container.

**(8)** Connect hose from source of oil (C192) to fuel control inlet fitting.

**(9)** When engine has cooled sufficiently to prevent auto-ignition, set throttle to IDLE position.

**CAUTION**

**Do not operate starter beyond operating limits, three runs of 40 seconds each during any 60 minute period. A cooling interval of three minutes is required between each 40-second run. Do not engage starter until engine has stopped rotating. START FUEL switch, if installed, shall be ON. Ignition switch shall be ON.**

**(10)** Motor engine with starter to pump lubricating oil into fuel system.

**(11)** Open and close throttle to ensure flushing the fuel control.

**(12)** Continue motoring engine until fuel-free oil flows into container.

**(13)** Disconnect lubricating oil source from fuel system.

**(14)** Connect main and starting fuel hoses.

**(15)** Spray power turbine rotor with sufficient corrosion preventive compound to cover blades.

**(16)** Turn ignition switch OFF.

NOTE

**Use dehydrated air for spraying operations.**

**(17)** Install engine inlet and exhaust covers. If not available, seal openings with barrier material (C115) and secure with tape (C279).

**(18)** Remove, disassemble, and clean oil filter. Immerse filters in operating lubricant (C192), assemble, and install.

**(19)** Attach tag to fuel control stating, ENGINE PRESERVED; FUEL CONTROL PRESERVED WITH MIL-L-6081 OIL. FLUSH WITH OPERATING FUEL BEFORE PLACING IN SERVICE.

**(20)** Visually check entire engine to ensure:

**(a)** All holes are plugged.

(b) All ports are capped.

(c) All external parts are complete and secure.

(d) All bare metal, including internal and external threads, is covered with corrosion-preventive compound (C86).

(21) Annotate records that a corrosion preventive concentrate has been added to the engine, transmission, and gearbox oil systems in accordance with TB55-9150-200-25, and that flushing is not required during depreservation.

(22) Record date and extent of engine preservation in helicopter records.

c. **Engine (Inoperable).**

**WARNING**

**Cleaning materials are flammable and toxic. Avoid skin contact and breathing of solvent vapors.**

**NOTE**

**Engine involved in an accident shall not be preserved. Refer to TM 55-2840-229-23.**

(1) Use every precaution to keep engine and its accessories clean. Keep air intake screens, plenum chambers, and compressor inlet screens clean and free of foreign material. Use solvent (C261) for general cleaning

**CAUTION**

**To prevent accidental firing of the engine, ensure IGNITION SYSTEM IGNITER SOLENOID circuit breaker is open. (Pulled out.)**

(2) Disengage ignition system igniter solenoid circuit breaker.

(3) Disconnect the fuel lines from the fuel control inlet and outlet ports.

(4) Remove fuel control drain plug and drain fuel from the fuel control and hoses.

(5) Remove overspeed governor and drain fuel.

(6) Connect fuel hoses and replace drain plug.

(7) Safety throttle to CLOSED position.

(8) Pour oil (C192) into openings made accessible by removal of overspeed governor until the fuel regulator is filled.

(9) Pour oil (C192 into overspeed governor while rotating driveshaft by hand.

(10) Pour excess lubricating oil from overspeed governor and install.

(11) Install engine inlet and exhaust covers, or if not available, seal openings with greaseproof barrier material (C115) and secure with tape (C279).

(12) Seal the gap between the bleed band and compressor housing by encircling the engine with a narrow strip of barrier material (C115) and secure with tape (C279).

(13) Visually check entire engine to ensure:

(a) All holes are plugged.

(b) All ports are capped.

(c) All external parts are complete and secure.

(d) All bare metal including internal and external threads is covered with corrosion preventive compound (C86).

(14) Attach a tag to controls stating, FUEL CONTROL HAS BEEN PRESERVED WITH MIL-L-6081 OIL. FLUSH WITH STANDARD FUEL BEFORE PLACING IN SERVICE.

(15) Record date and extent of engine preservation in helicopter records.

d. **Rotors and Controls.**

(1) Lubricate rotor system in accordance with lubrication order, Chapter 1.

**WARNING**

**Cleaning materials are flammable and toxic. Avoid skin contact and breathing of solvent vapors.**

(2) Apply fingerprint remover (C88) to all unpainted metal surfaces. Remove residue with solvent (C261) and a clean cloth.

**WARNING**

**Cleaning materials are flammable and toxic. Avoid skin contact and breathing of solvent vapors.**

(3) Wipe all parts dry with a clean lint-free cloth and apply corrosion preventive compound (C86) on all unpainted surfaces not in contact with bearings.

(4) Clean surfaces of rotor blades with mild soap and water solution. Wipe blades completely dry with a clean lint-free cloth.

(5) Apply a light even coat of wax (Chapter 1) to entire painted area of rotor blades.

**WARNING**

**Cleaning materials are flammable and toxic. Avoid skin contact and breathing of solvent vapors.**

(6) Apply a light coat of corrosion-preventive compound (C88) to tail rotor cables, sprocket and chain. Cycle controls through full range for complete coverage.

**e. Landing Gear.**

(1) Place blocks or shoring under skid tubes to provide free air passage.

(2) Clean skid/crosstubes and treat for corrosion in accordance with TM 55-1500-204-25/1.

**WARNING**

**Cleaning materials are flammable and toxic. Avoid skin contact and breathing of solvent vapors.**

(3) Repaint any exposed metal surfaces. If paint cannot be touched up, coat bare metal surfaces with corrosion preventive compound (C88).

**f. Hydraulic System.**

(1) Fill hydraulic reservoir with fluid (C131).

(2) Wipe exposed portions of hydraulic boost cylinder actuator pistons with lint-free cloth moistened with hydraulic preservative fluid (C132).

**g. Avionics.**

(1) Remove, attach condition tags, and turn-in all headsets and microphones to Supply.

(2) Leave all unclassified installed avionic equipment in helicopter.

**h. Fuel System.** Maintain fuel tanks FULL for the duration of the storage period to preclude condensation. Drain water from tanks before adding fuel. If a requirement exists to drain tanks, refer to Intermediate Storage.

**i. Battery**

(1) Remove battery and turn in to the battery shop.

(2) Clean battery compartment, quick disconnect plug, cables, battery shelf, and vent hoses with a solution of **five** ounces boric acid crystals dissolved in one gallon of water. Rinse with clean water and allow to dry.

(3) Seal the battery vent tubes and cover the quick-disconnect plug with barrier material (C115) secured with tape (C279).

**j. Airframe.**

(1) Park and moor helicopter with main and tail rotor tiedowns installed in accordance with Chapter 1.

(2) Remove clock, fire extinguishers, and first aid kits. Tag for condition and transfer to Supply to prevent possible pilferage.

(3) Apply pitot cover or cover pitot head and static ports with barrier material (C115) secured with tape (C279).

(4) Remove windshield wipers and blades. Wrap, tag, and store in the cockpit.

(5) Close all doors, windows, inspection panels, and cowling.

(6) Clean all exposed antennas and connections.

(7) Close all openings or voids not already covered with barrier material (C98) secured with tape (C221).

(8) Cover windshield with cover.

(9) Install static ground wire.

(10) Install storage covers, if available, in accordance with instructions accompanying covers.

(11) Annotate helicopter records to reflect short term storage.

## E-10. MAINTENANCE OF PRESERVATION DURING SHORT TERM STORAGE.

a. Inspect helicopters in accordance with local directives and those requirements outlined in paragraph E-3.

b. Should conditions change so that the helicopter is to remain in storage for a longer period of time than 45 days, represerve it in accordance with Section IV.

NOTE

**Do not renew Short Term Storage.**

## E-11. DEPRESERVATION AFTER SHORT TERM STORAGE.

a. **Airframe.**

(1) Remove storage covers, clean, and return to Supply.

(2) Remove static ground wire.

**WARNING**

**Cleaning materials are flammable and toxic. Avoid skin contact and breathing of solvent vapors.**

(3) Remove, clean, and store windshield cover and barrier material/tape covering openings of voids. Remove tape residue with solvent (C261).

(4) Open all doors and windows to ventilate helicopter.

(5) Install windshield wipers and blades.

(6) Remove pitot cover and ensure static ports are open and free of tape residue.

(7) Replace clock, fire extinguisher, and first aid kit.

(8) Remove main/tail rotor tiedown and any mooring devices.

b. **Battery.**

(1) Remove barrier material/tape from vent tubes and quick-disconnect plug in battery compartment,

(2) Install battery, and after ensuring that all switches are off, attach quick-disconnect plug.

c. **Fuel System (tanks and lines).**

(1) Drain water from tanks.

(2) Inspect fittings and clamps.

(3) Sample fuel and test for contamination.

d. **Avionics.**

(1) Replace headsets and microphones.

(2) Ensure that all components including antennae are in place.

e. **Hydraulic System.**

(1) Check reservoir level and inspect system for leaks.

**WARNING**

**Cleaning materials are flammable and toxic. Avoid skin contact and breathing of solvent vapors.**

(2) Clean exposed portion of hydraulic boost cylinder actuator pistons with a clean cloth dampened with solvent (C261).

**f. Landing Gear.** Remove blocks or shoring under skid tubes.

**g. Rotors and Controls.**

**WARNING**

**Cleaning materials are flammable and toxic. Avoid skin contact and breathing of solvent vapors.**

(1) Clean main and tail rotor assemblies with solvent (C261). Wipe dry with lint-free cloth.

(2) Ensure that corrosion preventive compound is removed from tail rotor control chain and sprocket.

(3) Lubricate in accordance with Chapter 1.

(4) Ensure stabilizer bar dampers have fluid (C129) to the proper level. Check timing after refilling and replace damper if unsatisfactory. (See Chapter 5).

**h. Power-train.**

**WARNING**

**Cleaning materials are flammable and toxic. Avoid skin contact and breathing of solvent vapors.**

(1) Using solvent (C261), clean all surfaces coated with corrosion preventive compound. Wipe dry with a clean cloth.

(2) Check sight gages for proper lubricant levels. Service as necessary in accordance with Chapter 1.

(3) Check and clean transmission oil filters.

**i. Engine.**

(1) Remove covers on inlet, exhaust, and bleed band if applicable.

**WARNING**

**Cleaning materials are flammable and toxic. Avoid skin contact and breathing of solvent vapors.**

(2) Inspect opening for foreign material and corrosion. Wipe clean with solvent (C261).

(3) Remove chip detector from accessory drive gearbox and drain plugs from fuel control. After oil has drained, clean and replace chip detector (if serviceable) and plugs.

(4) Ensure ignition system igniter solenoid circuit breaker is not engaged.

(5) Disconnect main fuel hose from main fuel manifold or flow divider, as applicable, and drain into a container of at least two gallons capacity.

(6) Check oil level; service if necessary.

**CAUTION**

Do not exceed starter limitations.

(7) Operate helicopter boost pump to prime fuel system, then motor engine with starter.

(8) Move throttle to maximum open until a solid stream of fuel with no air bubbles is observed flowing into the container. At least one gallon of fuel must flow into the container.

**NOTE**

**Engine lubrication system is fully primed when oil pressure gage shows a steady positive indication.**

(9) Connect main fuel hose to main fuel manifold or flow divider, as applicable, and inspect engine for leakage.

(10) Engage ignition system igniter solenoid circuit breaker.

(11) Operate the engine for approximately ten minutes at a minimum N2 rpm of 5500. Restrict the engine operation at IDLE position to a

maximum of **two** minutes in each period. Check all instruments for normal operation and ensure that the engine temperature has stabilized. (Refer to Operator's Manual.)

(12) Shut down engine.

(13) Remove oil filter, check for excessive condensation, clean and install.

(14) Remove chip detector, check for excessive contamination, clean and install.

**WARNING**

**Cleaning materials are flammable and toxic. Avoid skin contact and breathing of solvent vapors.**

(15) Remove fuel inlet strainer and pump discharge strainer from fuel control. Check for contamination, clean with solvent(C261)and install. Replace servo supply filter.

(16) If no contamination is evident, engine is ready for ground test. If there is slight contamination, drain the oil, and refill the system with new oil.

(17) Repeat steps (11) through (15). Evidence of continued oil contamination requires a thorough investigation.

NOTE

**If there are fewer than ten hours operating time on engine since new or last overhaul, repeat steps (11) through (15) until no contamination is evident or analysis of the contamination determines that the engine must be replaced.**

j. **Miscellaneous.**

(1) Clean helicopter as necessary in accordance with Chapter 1

(2) Check helicopter records for components which had been removed or disconnected. Ensure that all have been replaced and connected.

(3) Ensure that all related systems have been properly depreserved and serviced before any system or component operational check is performed.

(4) Check that all procedures required to activate the helicopter from storage have been accomplished. Clear form entries.

(5) Perform daily inspection in accordance with PMD cards.

## SECTION IV — INTERMEDIATE STORAGE

### E-12. INSPECTION PRIOR TO STORAGE.

NOTE

**The general requirements of Section I are a part of these procedures.**

a. Ensure that all removed components are preserved and either stowed in the helicopter or at a designated location.

b. Ensure that all removed or disconnected components are entered in the helicopter records.

c. Check fuel, oil, and hydraulic lines/hoses for leakage.

d. Lubricate the helicopter for 50 and 100 hour intervals in accordance with Chapter 1.

e. Ensure that bolts, nuts, and washers removed during disassembly are coated with corrosion preventive compound (C86) and reinstalled in quantities and location exactly as removed from the major component unless otherwise specified.

f. Record the date and type of storage in the helicopter records.

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## E-13. PRESERVATION.

a. **Power-train.** Preserve the power-train in accordance with paragraph E-9a.

b. **Engine.** Preserve operable and inoperable engines in accordance with paragraphs E-9b and E-9c.

c. **Rotors and Controls.**

(1) Preserve in accordance with paragraph E-9d.

(2) Color code and remove rotor blades, clean with mild soap and water, place in blade containers, and store under cover.

d. **Landing Gear.** Process landing gear in accordance with paragraph E-9e.

e. **Hydraulic System.** Preserve in accordance with paragraph E-9f.

f. **Avionics.** Process in accordance with paragraph E-9g.

g. **Fuel System.**

**WARNING**

**Observe all safety precautions when purging fuel cells. Use only approved equipment and methods. Refer to TM 55-1500-204-25/1.**

(1) Drain the fuel tanks in accordance with Chapter 1.

(2) Add five gallons diesel fuel and drain. This should remove any residual fuel which puddled at the bottom of the tank.

(3) Open fuel line and activate boost pump to remove fuel at pump sump.

(4) Repeat steps (2) and (3) using lubricating oil (C192).

(5) Spray the inside of the accessible tank with oil (C192).

(6) Drain the oil and test tanks with a Combustible Gas Indicator. If a dangerous level of fuel fumes exists, flush tanks with fresh lubricating oil until a safe reading is obtained.

(7) Tag fuel cap to read THIS FUEL SYSTEM HAS BEEN PRESERVED WITH MIL-L-6081 OIL. Flush with standard fuel before placing in service.

h. **Damaged Fuel Systems.**

(1) Open fuel cells in accordance with Chapter 1, and ventilate tanks with rapidly moving dry air until fumes are below the danger level as indicated by testing with a Combustible Gas Indicator.

(2) Preserve the tanks by spraying with oil (C154) through access openings. Coat the entire interior surface.

(3) Tag the fuel system to read TANKS PRESERVED WITH MIL-L-6081 oil.

i. **Battery.** Preserve battery in accordance with paragraph E-9i.

j. **Airframe.** Except for rotor blade securement, prepare in accordance with paragraph E-9j

## E-14. MAINTENANCE OF PRESERVATION DURING INTERMEDIATE STORAGE.

a. Inspect helicopter in accordance with local directives and those requirements outlined in paragraph E-3.

b. Applicable portions of preventive maintenance daily inspection shall be performed at least once every 30 days in accordance with PMD cards.

c. If conditions change so that a helicopter prepared for Intermediate Storage is to remain in storage for a longer period of time, represerve the helicopter at the end of 180 days.

## E-15. DEPRESERVATION AFTER INTERMEDIATE STORAGE.

a. **Airframe.** Depreserve helicopters in accordance with paragraph E-11a(1) — (7).

b. **Electrical System.** Prepare for flight in accordance with paragraph E-11b.

c. **Avionics.** Prepare for flight in accordance with paragraph E-11d.

d. **Hydraulics.** Depreserve in accordance with E-11e.

e. **Landing Gear.** Remove blocks or shoring from under skid tubes.

f. **Rotors and Controls.**

(1) Depreserve in accordance with paragraph E-11g.

(2) Replace main and tail blades on hubs in same position as before removal.

g. **Power-train.** Depreserve in accordance with paragraph E-11h.

h. **Engine/Fuel System.**

(1) Drain fuel tanks of any accumulated oil.

(2) Add five gallons operating fuel (C119) to flush tanks. Drain.

(3) Fill tanks with operating fuel. Check for leaks.

(4) Depreserve engine in accordance with paragraph E-11i.

i. **Miscellaneous.**

(1) Clean helicopter as necessary in accordance with Chapter 1.

(2) Ensure that all removed components have been installed on/in helicopter. Check the records for identification of components which have been removed or disconnected. Check for subsequent installation or connection.

(3) Determine that all related systems have been properly depreserved and serviced before any system or component operational check is performed.

(4) Perform any necessary inspection required by helicopter records in accordance with Chapter 1.

(5) Remove static ground wire.

(6) Ensure all necessary entries are made in helicopter records, and indicate in logbook that helicopter has been depreserved and removed from storage.

# APPENDIX F

# WIRING DIAGRAMS

## F-1. WIRING DIAGRAMS

**F-2. Description — Wiring Diagrams** This appendix contains wiring diagrams, and essential wiring information for the electrical systems and circuits in the UH-1D/H helicopter to assist maintenance personnel in understanding the circuits and components installed in the helicopter and in troubleshooting and tracing of inoperative and malfunctioning circuits.

NOTE

**Master wiring diagrams are not furnished for helicopters S/N 65-9565 and subsequent. In lieu of master wiring diagrams, individual system wiring diagrams are furnished to provide easier circuit analysis, troubleshooting, and tracing of inoperative and/or malfunctioning circuits.**

## F-3. WIRING DATA.

**F-4. Wire Identification.** All wires on diagrams are identified by coded wire numbers exactly as they are marked in the helicopter. The coded wire numbers indicate circuit function, wire number, wire segment letter, and wire size (gage). (See figure F-1.)

**F-5. Abbreviations.** Abbreviations are in accordance with MIL-STD-12C and AR310-50, except when the abbreviation depicts a marking or decal contained in or on the helicopter.

**F-6. Symbols.** Wiring diagram component symbols are drawn in accordance with ANSI Y14.15, Part 1. The symbols chart (figure F-2) illustrates electrical symbols used on the wiring diagrams.

## F-7. EQUIPMENT LISTS.

**F-8. Description — Equipment Lists.** Tables F-1 through F-4 list each item of equipment shown on the electrical system wiring diagrams. Each item of equipment is identified by the reference designator and nomenclature.

## F-9. CONNECTOR REPLACEMENT CHART.

**F-10. Description — Connector Replacement Chart.** The purpose of the connector replacement chart (table F-5) is to provide maintenance personnel with necessary information to replace (resolder or crimp) a damaged electrical connector. The chart contains the connector code item numbers, the connector pin letters or numbers, and the wire number that installs in each respective pin. Only those connectors that are not shown in their entirety in one of the system diagrams are presented in table F-5.

## F-11. WIRING DIAGRAM INDEX.

NOTE

**System wiring diagrams with no effectivity listing cover helicopter blocks 65-9565 and subsequent.**

Title Figure
Electrical Schematic (64-13492 thru 64-13901) F-3
Electrical Wiring Diagram (64-13492 thru 64-13901) F-4
RPM Limit Warning Test Set F-5
RPM Limit Warning Test Set Schematic—BHT Model 205-074-033-103 F-6
Mission Antennas OE-201/ARQ-33 and OE-202/ARQ-33 F-7
High Performance Hoist System F-8
Door Gunners Foot Mike Switch F-9
Altimeter AAU-31/A and AAU-32/A and Transponder F-10
AN/APX-72 Interconnecting Wiring Diagram F-
Tachometer Generator System F-11
Ac Pressure Indicator System F-12
Temperature Bulb, Turn and Slip Indicator F-13
Exhaust Temperature Indicator System F-14
Pilot Heater System F-15
Attitude Indicator System F-16
Fuel Quantity System F-17
**HVE** Battery System F-18
**EB** Battery System F-18.1
External Power System F-19
**EB** External 3 Phase Power System F-19.1
Generator and Bus System F-20
**EB** Generator and Bus System F-20.1
Ac Power System F-21
**EB** Alternator System F-21.1
Starter System F-22
External 3 Phase Power System F-22.1
Ignition System F-23
Cockpit, Dome and Crew Lights System F-24
Instrument, Console, and Pedestal Lights System F-25
Night Vision Goggles F-25.1
5-Volt Instrument Lighting System F-26.1
Caution Lights System F-26
RPM Warning System F-27
Landing and Searchlight System F-28
Navigation, Fuselage, and Anticollision Lights System F-29
De-ice and Ice Detector System F-30
Fuel Boost and Fuel Valve System F-31
Governor Control and Idle Stop Systems F-32
Force Trim and Hydraulic Control System F-33
Cabin Heating System F-34
Heated Blanket Receptacle Wiring Diagram F-35
Windshield Wiper System F-36
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Rescue Hoist System F-38
High Performance Utility Helicopter Hoist System F-38.1
External Fuel System F-39
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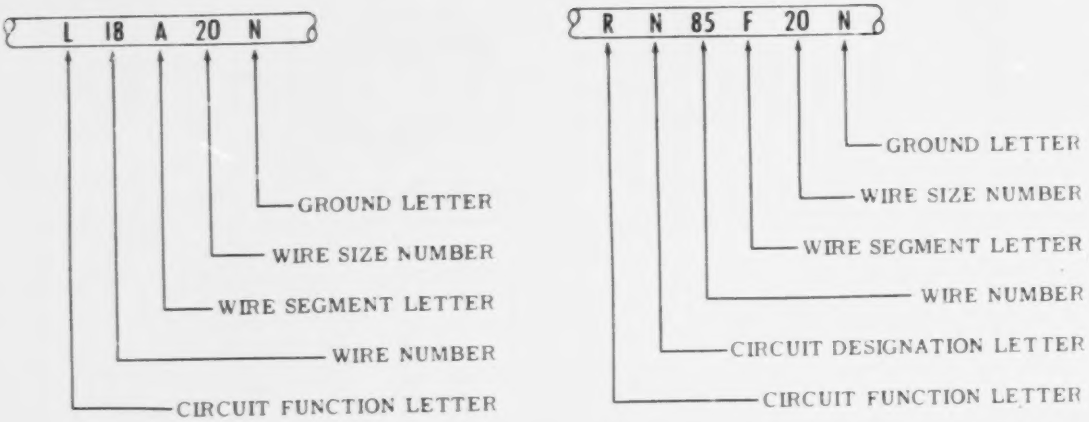
Armament Wiring Diagram F-41
Electrical Schematic (62-2106 thru 62-2113, 62-12351 thru 62-12372) F-42
Electrical Wiring Diagram (62-2106 thru 62-2113, 62-12351 thru 62-12372) F-43
Electrical Schematic (63-8739 thru 63-8859, 63-12956 thru 63-13002) F-44
Electrical Wiring Diagram (63-8739 thru 63-8859, 63-12956 thru 63-13002) F-45

## WIRING IDENTIFICATION CODE


L 18 A 20 N
GROUND LETTER
WIRE SIZE NUMBER
WIRE SEGMENT LETTER
WIRE NUMBER
CIRCUIT FUNCTION LETTER
R N 85 F 20 N
GROUND LETTER
WIRE SIZE NUMBER
WIRE SEGMENT LETTER
WIRE NUMBER
CIRCUIT DESIGNATION LETTER
CIRCUIT FUNCTION LETTER

## CIRCUIT FUNCTIONS

| CODE | NOMENCLATURE |
|---|---|
| A | ARMAMENT |
| C | CONTROL SURFACES |
| D | INSTRUMENTS (OTHER THAN FLIGHT OR ENGINE) |
| E | ENGINE INSTRUMENTS |
| F | FLIGHT INSTRUMENTS |
| H | HEATING, VENTILATING AND DE-ICING |
| J | IGNITION |
| K | ENGINE CONTROL |
| L | LIGHTING |
| M | MISCELLANEOUS ELECTRIC |
| N | GROUND |
| P | DC POWER |
| Q | FUEL AND OIL |
| R | RADIO (NAVIGATION AND COMMUNICATION) |
| RC | COMMAND |
| RF | VHF LIAISON |
| RL | LIAISON |
| RM | MARKER BEACON |
| RN | NAVIGATION |
| RU | UHF COMMAND |
| RV | VHF COMMAND |
| RZ | INTERPHONE AND HEADPHONE |
| S | RADAR |
| SX | RECOGNITION (IFF) |
| TN | TRACKING NAVIGATION |
| V | DC POWER AND DC CONTROL CABLES FOR AC SYSTEM |
| W | WARNING AND EMERGENCY |
| X | AC POWER |

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AV 054194

Figure F-1. Wiring identification code

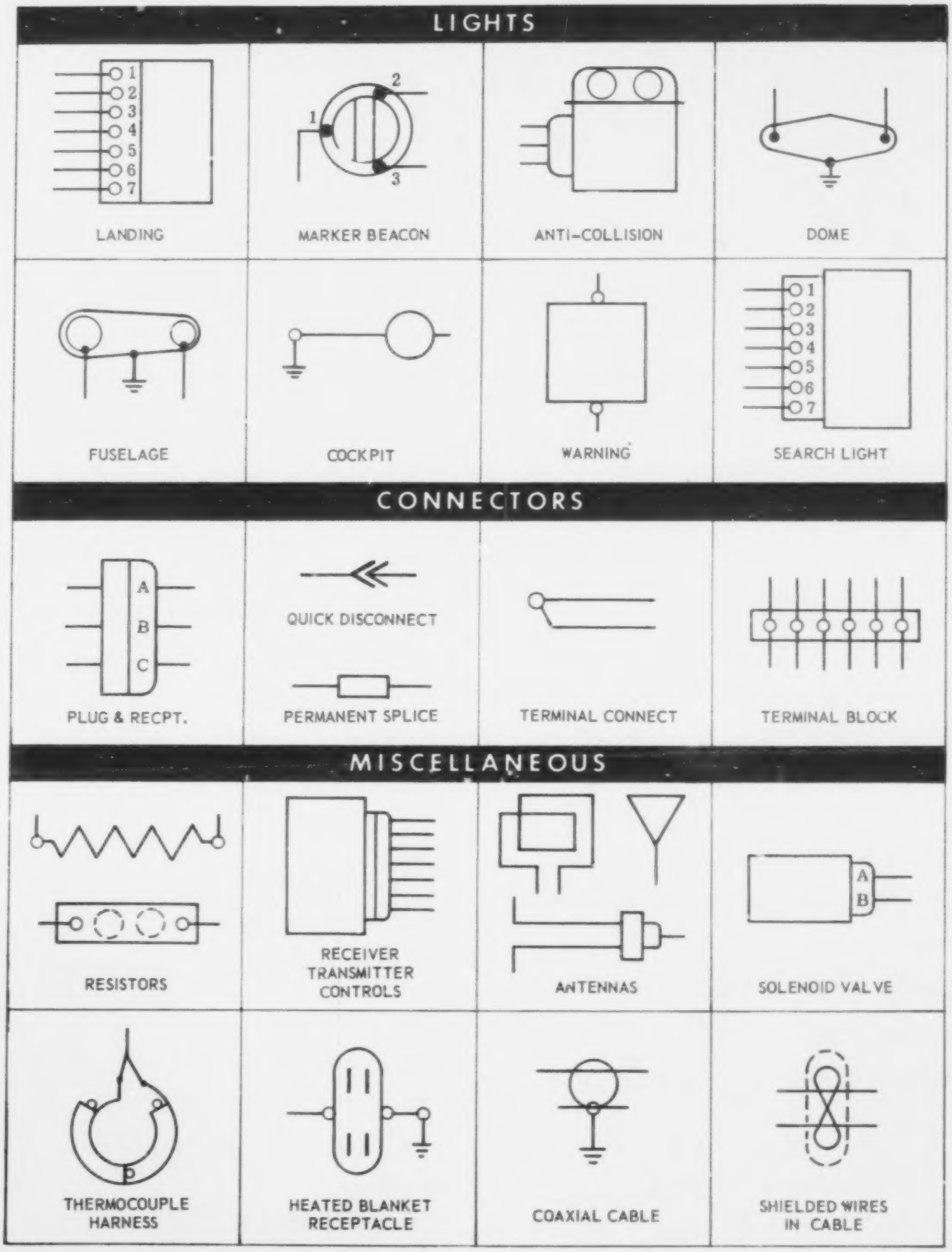
LIGHTS
1
2
3
4
5
6
7
LANDING
1
2
3
MARKER BEACON
ANTI-COLLISION
DOME
FUSELAGE
COCKPIT
WARNING
1
2
3
4
5
6
7
SEARCH LIGHT
CONNECTORS
A
B
C
PLUG & RECPT.
QUICK DISCONNECT
PERMANENT SPLICE
TERMINAL CONNECT
TERMINAL BLOCK
MISCELLANEOUS
RESISTORS
RECEIVER TRANSMITTER CONTROLS
ANTENNAS
A
B
SOLENOID VALVE
THERMOCOUPLE HARNESS
HEATED BLANKET RECEPTACLE
COAXIAL CABLE
SHIELDED WIRES IN CABLE

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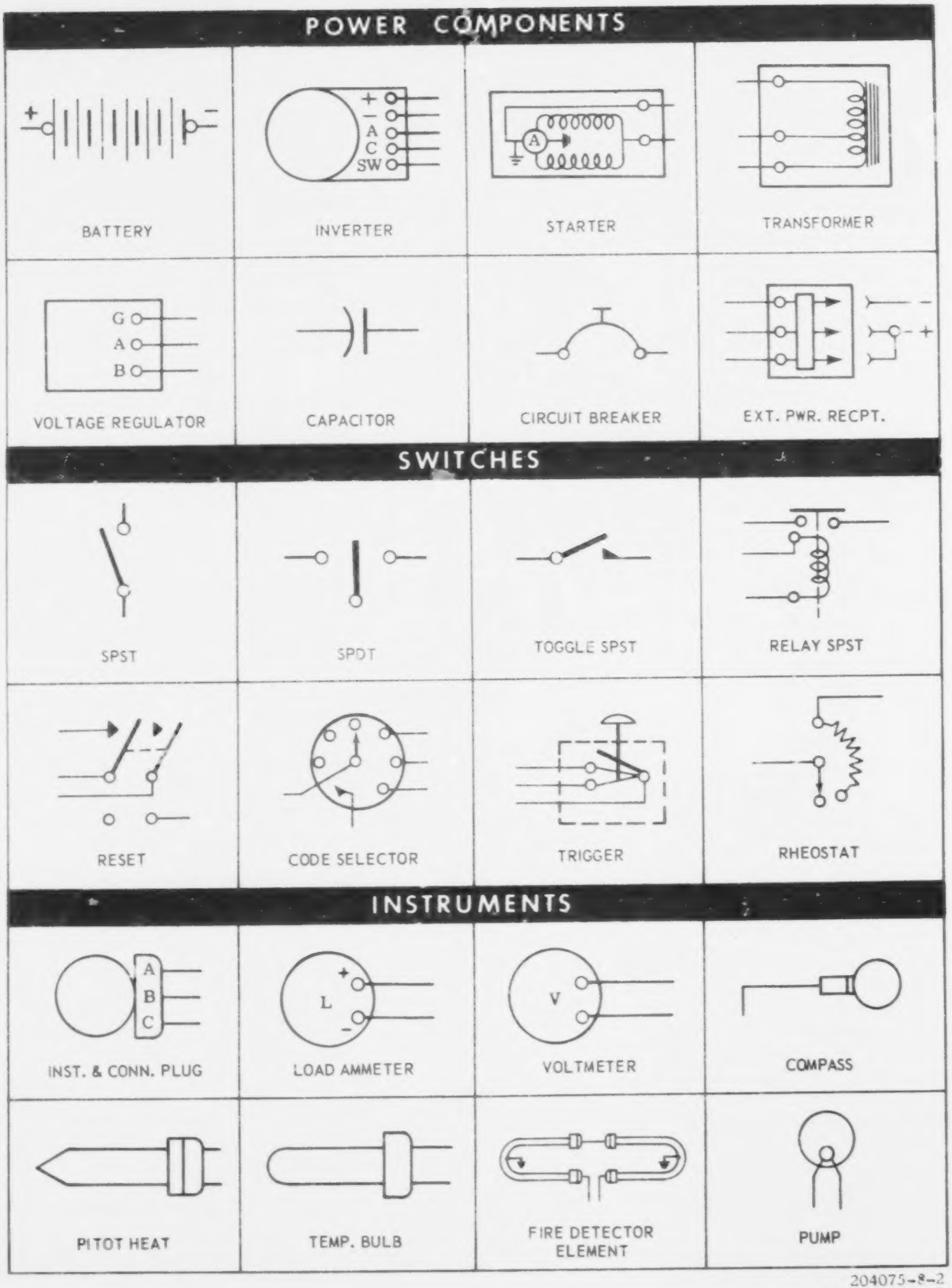
Figure F-2. Electrical symbol chart (Sheet 1 of 2)


POWER COMPONENTS
+
−
A
C
SW
A
BATTERY
INVERTER
STARTER
TRANSFORMER
G
A
B
VOLTAGE REGULATOR
CAPACITOR
CIRCUIT BREAKER
EXT. PWR. RECPT.
SWITCHES
SPST
SPDT
TOGGLE SPST
RELAY SPST
RESET
CODE SELECTOR
TRIGGER
RHEOSTAT
INSTRUMENTS
A
B
C
L
V
INST. & CONN. PLUG
LOAD AMMETER
VOLTMETER
COMPASS
PITOT HEAT
TEMP. BULB
FIRE DETECTOR ELEMENT
PUMP

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AV 052206-2

Figure F-2. Electrical symbol chart (Sheet 2 of 2)

## Table F-1. Equipment List — Helicopters Serial No. 65-9565 Through 65-12895

| ITEM NO. | DESCRIPTION |
|---|---|
| A1 | Panel, DC Power |
| A2 | Panel, AC Power |
| A3 | Panel, Engine |
| A4 | Panel, Caution |
| A6 | Panel, Instrument Lights |
| A7 | Panel, Exterior Lights |
| A8 | Panel, Hydraulic Control |
| A10 | Panel, Miscellaneous |
| A11 | Panel, Heating |
| A12 | Cargo Hook Assembly |
| A13 | Panel, Resistor |
| A14 | Panel, AC Circuit Breaker |
| A15 | Panel, Overhead Console |
| A20 | Panel Assembly, Aft Dome Lights |
| A21 | Panel, Dome Lights & Pitot Heater |
| A26 | Panel,Assembly, Ext. Fuel |
| B1 | Syncro XMTR Torque Pressure |
| B3 | Syncro XMTR, XMSN Oil Pressure |
| B3 | Syncro XMTR, Engine Oil Pressure |
| B4 | Syncro XMTR, Fuel Pressure |
| B5 | Motor, Fuel Shutoff Valve |
| B6 | Motor, R/H Fuel Boost Pump |
| B7 | Motor, Windshield Wiper |
| B8 | Motor, R/H Aux. Fuel Pump |
| B12 | Motor, Gov. RPM Actuator |
| B13 | Motor, L/H Aux. Fuel Pump |
| B19 | Motor, Bleed Air Valve |
| B31 | Motor, Copilot Windshield Wiper |
| BT2 | Battery |
| C1 | Capacitor, PF Corr. (MIL-C-25) |
| C7 | Capacitor, Filter, JN14 |
| CB1 | Circuit Breaker (5A) |
| CB2 | Circuit Breaker (10A) |
| CB3 | Circuit Breaker (15A) |
| CB4 | Circuit Breaker (20A) |
| CB5 | Circuit Breaker (25A) |
| CB6 | Circuit Breaker (1A) |
| CB7 | Circuit Breaker (35A) |
| CB8 | Circuit Breaker ( 2A ) |
| CB11 | Circuit Breaker (7.5A) |
| CB12 | Circuit Breaker (50A) |
| CP1 | Coupler, Fuel Qty. Sys. "J" Box, Unshielded |
| CP2 | Coupler, Fuel Qty. Sys. "J" Box, Shielded |
| CR2 | Diode, Ext. Power Relay |
| CR30 | Diode, Batt. Voltage Fwd. Loc |
| CR31 | Diode, Batt. Voltage Aft Loc |
| D1 | Inverter, 250 V.A. 3 Ph (Main) |
| D2 | Inverter, 250 V.A. 3 Ph (Spare) |
| DS1 | Control Assembly, RPM Warn. |
| E1 | Detector, Magnetic Chip |
| E2 | Detector, Magnetic Chip |
| E3 | Detector, Magnetic Chip |
| E4 | Detector, Magnetic Chip |
| G2 | Generator, 30 VDC (300A) |
| G3 | Generator, Tach. (Gas Prod.) |
| G4 | Generator, Tach. (Pwr. Turb.) |
| G5 | Generator, Tach. (Rotor) |
| G6 | Generator, Starter 28V (200A) |
| HR1 | Heater, Pitot Tube |
| I1 | Indicator, Attitude (Copilot) |
| I2 | Indicator, Fuel Quantity |
| I3 | Indicator, Torque - Pilot |
| I4 | Indicator, Oil Pressure (Engine) |
| I5 | Indicator, Oil Pressure (XMSN) |
| I6 | Indicator, Fuel Pressure |
| I7 | Indicator, Tach. (Gas Prod.) |
| I8 | Indicator, Tach-Dual (Pilot) |
| I9 | Light, Utility (Pilot) |
| I10 | Light, Dome |
| I11 | Light, Search |
| I12 | Light, Fire Warning |
| I13 | Light, Master Caution |
| I14 | Light, Instrument Secondary |
| I15 | Lamp, Instrument & Edge Lights |
| I16 | Light, Landing |
| I17 | Light, Left Navigation |
| I18 | Light, Right Navigation |
| I19 | Light, Tail |
| I20 | Light, Top Fuselage |
| I21 | Indicator, XMSN Oil Temp. |
| I22 | Indicator, Engine Oil Temp. |
| I23 | Indicator, Turn & Slip (Pilot) |
| I25 | Light, XMSN Sump Inspect |
| I26 | Light, Bottom Fuselage |
| I28 | Light, Utility (Copilot) |
| I31 | Indicator, Exh. Temp. (Pilot) |
| I34 | Standby Compass (Pilot) |
| I40 | Light, Anti-Collision |
| I42 | Indicator, Attitude (Pilot) |
| I44 | Light, Cargo Release Armed |
| I45 | Light, Hi-Lo RPM Warn. |
| I72 | Light, Air Filter, Warning |
| J2 | Recept. Pitot Tube Heater |
| J3 | Recept. Instrument Panel Disc. |
| J4 | Recept. Fuel Quantity Ind. |
| J5 | Recept. Fuel Pressure Ind. |
| J6 | Recept. Copilot Att. Ind. |
| J7 | Recept. Engine Oil Temperature Ind. |
| J8 | Recept. Engine Oil Pressure Ind. |
| J9 | Recept. Pilot Dual Tach. (Rotor) |
| J10 | Recept. Pilot Dual Tach. (Pwr. Turb.) |
| J11 | Recept. XMSN Oil Temperature Ind. |
| J12 | Recept. XMSN Oil Pressure Ind. |
| J13 | Recept. Pilot 5v Power Supply |
| J14 | Recept. Copilot 5v Power Supply |

**Table F-1. Equipment List — Helicopters Serial No. 65-9565 Through 65-12895 (Cont)**

| ITEM NO. | DESCRIPTION | ITEM NO. | DESCRIPTION |
|---|---|---|---|
| J15 | Recept. Pilot Torque Meter | J106 | Recept. Heated Blanket R/H |
| J16 | Recept. Pilot Turn & Slip Indicator | J107 | Recept. Copilot Collective Stick |
| J17 | Recept. Gas Prod. Tach. | J108 | Recept. Fuel Diff. Pressure Sw. |
| J20 | Recept. Pilot Cyclic Stick | J109 | Recept. Ext. Power |
| J21 | Recept. Hydraulic Control Panel | J110 | Recept. Anti-Collision Lt. Disc. |
| J22 | Recept. Copilot Cyclic Stick | J111 | Recept. Anti-Collision Lt. |
| J23 | Recept. Engine Panel | J112 | Recept. Mag. Brake, Anti-Torque |
| J24 | Recept. Caution Panel | J113 | Recept. Mag. Brake, Fore & Aft |
| J25 | Recept. Pilot Collective Stick | J114 | Recept. Mag. Brake Lat. |
| J26 | Recept. Windshield Wiper | J115 | Recept. Test-Eng. Vibration Meter |
| J28 | Recept. Hydraulic Bypass Solenoid | J127 | Recept. Var. Mix Valve Disc. |
| J29 | Recept. Hydraulic Press. Warning Sw. | J129 | Recept. Displacement-Roll & Pitch Gyro |
| J31 | Recept. Cargo Hook | J130 | Recept. Rate Switching Gyro |
| J32 | Recept. Cargo Sling Disc. | J131 | Recept. Attitude Ind. |
| J35 | Recept. Rotor, Tach. Gen. | J135 | Recept. Ice Interpreter |
| J36 | Recept. XMSN Oil Pressure Sw. | J136 | Recept. Ice Interpreter |
| J37 | Recept. XMSN Oil Temperature Bulb | J138 | Recept. Door Post Outlet Valve Act. |
| J38 | Recept. Copilot Windshield Wiper | J146 | Recept. Bleed Air Valve |
| J39 | Recept. XMSN Oil Pressure XMTR | J147 | Recept. Internal Aux. Fuel Disc. L/H |
| J41 | Recept. XMSN Disc. | J148 | Recept. Internal Aux. Fuel Disc. R/H |
| J42 | Recept. Fuel Tank Disc. L/H | J155 | Recept. Hi-Lo RPM Warn. |
| J43 | Recept. Compensator Fuel Tank Disc L/H | J156 | Recept. Eng. Fuel Filter Bypass Sw. |
| J44 | Recept. Fuel Tank Disc L/H | J166 | Recept. Aft, Outlet Valve |
| J53 | Recept. Bulkhead Feed-thru-Aft Fuel Cell | J191 | Recept. Main Inverter Power |
| J54 | Recept. Bulkhead Feed-thru-Aft Fuel Cell | J192 | Recept. Spare Inverter Power |
| J57 | Recept. Ext. Fuel Cont. Panel | J194 | Recept. Engine Chip Detector |
| J60 | Recept. Socket, Relay-Gen Field | J1017 | Recept. Ext. Fuel Disc. L/H |
| J64 | Recept. Torque Press. XMTR | J1024 | Recept. Ext. Fuel Disc. R/H |
| J65 | Recept. Engine Oil Press. XMTR | | |
| J66 | Recept. Fuel Pressure XMTR | K1 | Relay, External Power |
| J68 | Recept. Disc. Muff Heater | K2 | Relay, Non-Essential Bus |
| J71 | Recept. Engine Fuel Valve | K3 | Relay, Starter |
| J72 | Recept. Engine Oil Pressure Sw. | K4 | Relay, Bus Cont. (Gen. Fail) |
| J74 | Recept. Batt. Disc. | K5 | Relay, Reverse Curr (Main) |
| J75 | Recept. Navigation Lts. Flasher | K6 | Relay, Over Voltage |
| J77 | Recept. Ice-Detector | K7 | Relay, Generator Field |
| J80 | Recept. Engine Air Pressure Sw. | K8 | Relay, AC Failure |
| J81 | Recept. Starter Deck | K9 | Relay, Battery |
| J84 | Recept. De-Icing, Hot Air Valve | K10 | Relay, Fuel Transfer |
| J85 | Recept. Engine Oil Temp. Bulb | K23 | Relay, Standby Gen. Rev. Curr |
| J86 | Recept. Power Turb. Tach. | K24 | Relay, Cargo, Hook Release |
| J87 | Recept. Gas Turb. Tach. | K27 | Relay, Inverter |
| J88 | Recept. Ignition Unit, Engine | K35 | Relay, Main Invtr. Power |
| J89 | Recept. Primer Valve (Fuel Ign. Sol.) | K36 | Relay, Spare Invtr. Power |
| J90 | Recept. Fuel Cont. Sol. Valve | K37 | Relay, Lo-Fuel Caution Light |
| J91 | Recept. Engine Disc. | K38 | Relay, Lo-Fuel Caution Light |
| J92 | Recept, Engine Fwd. Disc. | K46 | Relay, Overheat |
| J93 | Recept. Fire Det. Fwd. Disc. | K65 | Relay, Battery, Aft Loc |
| J94 | Recept. Fire Det. Element R/H | K66 | Relay, Battery Feeder |
| J95 | Recept. Fire Det. Element L/H | | |
| J96 | Recept. Fire Det. Element R/H | L1 | Solenoid, Primer (Ignition) |
| J97 | Recept. Fire Det. Element L/H | L2 | Solenoid, Fuel Cont. Valve |
| J98 | Recept. Tail Light Disc. | L4 | Solenoid, Hydraulic Bypass |
| J99 | Recept. Thermocouple Disc. | L6 | Solenoid, Hot Air De-icer |
| J102 | Recept. Standby Compass (Pilot) | L7 | Solenoid, Idle Stop Rel. |
| J105 | Recept. Heated Blanket L/H | L8 | Mag. Brake Anti-Torque Force Trim |

Table F-1. Equipment List — Helicopters Serial No. 65-9565 Through 65-12895 (Cont)

| ITEM NO. | DESCRIPTION |
|---|---|
| L9 | Mag. Brake Fore & Aft Force Trim |
| L10 | Mag. Brake Lat. Force Trim |
| L14 | Solenoid, Door Post Htr. Outlet Valve |
| L15 | Solenoid, Aft Outlet Valve Act. |
| M1 | Meter, DC Load (Stand-By-Gen.) |
| M2 | Meter, DC Volts |
| M3 | Meter, AC Volts |
| M4 | Meter, DC Load (Main Gen) |
| O2 | Guard - Generator Sw-DC Pwr. Panel |
| P2 | Plug, Pitot Tube Heater |
| P3 | Plug, Instrument Panel Conn. |
| P4 | Plug, Fuel Qty. Ind. |
| P5 | Plug, Fuel Press. Ind. |
| P6 | Plug, Copilot Att. Ind. |
| P7 | Plug, Engine Oil Temp. Ind. |
| P8 | Plug, Engine Oil Press. Ind. |
| P9 | Plug, Pilot Dual Tach. (Rotor) |
| P10 | Plug, Pilot Dual Tach. (Pwr. Turb.) |
| P11 | Plug, XMSN Oil Temp. Ind. |
| P12 | Plug, XMSN Oil Press. Ind. |
| P13 | Plug, Pilot 5v Power Supply |
| P14 | Plug, Copilot 5v Power Supply |
| P15 | Plug, Pilot, Torque Meter |
| P16 | Plug, Pilot, Turn & Slip Ind. |
| P17 | Plug, Gas Prod. Turb. Tach |
| P20 | Plug, Pilot's Cyclic Stick |
| P21 | Plug, Hydraulic Cont. Panel |
| P22 | Plug, Copilot Cyclic Stick |
| P23 | Plug, Engine Panel |
| P24 | Plug, Caution Panel |
| P25 | Plug, Pilot Collective Stick |
| P26 | Plug, Windshield Wiper |
| P28 | Plug, Hyd. Bypass Sol. Valve |
| P29 | Plug, Cargo Hook |
| P32 | Plug, Cargo Hook Disc. |
| P35 | Plug, Rotor Tach. Gen. |
| P36 | Plug, XMSN Oil Pressure Sw. |
| P37 | Plug, XMSN Oil Temp. Bulb |
| P38 | Plug, Copilot Windshield Wiper |
| P39 | Plug, XMSN Oil Press. XMTR |
| P41 | Plug, XMSN Disc. |
| P42 | Plug, Shielded Tank Unit Disc L/H Tank |
| P43 | Plug, Monitor Tank Unit Disc L/H Tank |
| P44 | Plug, Unshielded Tank Unit Disc. L/H Tank |
| P46 | Plug, Fuel Tank Disc. L/H Cell |
| P47 | Plug, Fuel Tank Disc. L/H Cell |
| P48 | Plug, Fuel Tank Disc. L/H Cell |
| P53 | Plug, Unshielded Tank Unit Aft Cell |
| P54 | Plug, Shielded Tank Unit Aft Cell |
| P55 | Plug, Fuel Tank Disc. - Aft Cell |
| P56 | Plug, Fuel Tank Disc. - Aft Cell |
| P57 | Plug, Ext. Fuel Cont. Panel |
| P60 | Plug, Field Relay Gen. |
| P64 | Plug, Torque Press. XMTR |
| P65 | Plug, Eng. Oil Press. XMTR |
| P66 | Plug, Fuel Press. XMTR |
| P68 | Plug, Muff Heater Disc. |
| P71 | Plug, Fuel Valve Shut-off |
| P72 | Plug, Engine Oil Press. Sw. |
| P74 | Plug, Battery Disc. Fwd. |
| P75 | Plug, Navigation Lights Flasher |
| P77 | Plug, Ice Detector |
| P80 | Plug, Eng. Air Pressure Sw. |
| P81 | Plug, Starter Deck |
| P84 | Plug, De-Iceing Hot Air Valve |
| P85 | Plug, Oil Temp. Bulb |
| P86 | Plug, Power Turb. Tach. |
| P87 | Plug, Gas Prod. Tach. |
| P88 | Plug, Ignition Unit-Eng. |
| P89 | Plug, Ignition Sol. Valve |
| P90 | Plug, Fuel Cont. Sol. Valve |
| P91 | Plug, Engine Disc. |
| P92 | Plug, Engine Forward Disc. |
| P93 | Plug, Fire Det. Forward Disc. |
| P94 | Plug, Fire Det. Element R/H |
| P95 | Plug, Fire Det. Element L/H |
| P96 | Plug, Fire Det. Element R/H |
| P97 | Plug, Fire Det. Element L/H |
| P98 | Plug, Tail Light Disc. |
| P99 | Plug, Thermocouple Disc. - Engine |
| P99A | Plug, Thermocouple Disc. - Engine |
| P99B | Plug, Thermocouple Disc. - Engine |
| P102 | Plug, Standby Compass (Pilot) |
| P107 | Plug, Copilot Coll. Stick |
| P108 | Plug, Fuel Diff. Press. Sw. |
| P110 | Plug, Anti-Collision Light Disc. |
| P111 | Plug, Anti-Collision Light |
| P112 | Plug, Mag. Brake Anti-Torque |
| P113 | Plug, Mag. Brake Fore and Aft |
| P114 | Plug, Displacement, Roll & Pitch Gyro |
| P130 | Plug, Rate Switching Gyro |
| P131 | Plug, Attitude Ind. |
| P135 | Plug, Ice-Interpreter |
| P136 | Plug, Ice-Interpreter |
| P138 | Plug, Door Post - Aft Outlet Valve Act. |
| P146 | Plug, Bleed Air Valve |
| P147 | Plug, Unshielded Tank Coupler Disc. |
| P148 | Plug, Unshielded Tank Coupler Disc. |
| P149 | Plug, Unshielded Tank Coupler Disc. |
| P151 | Plug, Shielded Tank Coupler Disc. |
| P152 | Plug, Shielded Tank Coupler Disc. |
| P153 | Plug, Shielded Tank Coupler Disc. |
| P155 | Plug, Hi-Lo RPM Warning |
| P156 | Plug, Engine Fuel Filter Bypass |
| P166 | Plug, Aft Outlet Valve |
| P191 | Plug, Inverter Disc. - Main |
| P192 | Plug, Inverter Disc. - Spare |
| P194 | Plug, Engine Chip Detector |
| P1017 | Plug, Ext. Fuel Disc. L/H |
| P1024 | Plug, Ext. Fuel Disc. R/H |
| PS1 | Pilot, 5v Power Supply (PS-274B) |
| PS2 | Copilot, 5v Power Supply (PS-274B) |

Table F-1. Equipment List — Helicopters Serial No. 65-9565 Through 65-12895 (Cont)

| ITEM NO. | DESCRIPTION |
|---|---|
| R1 | Shunt, Ammeter (Stby-Gen.) |
| R2 | Shunt, Ammeter (Main Gen.) |
| R3 | Resistor, Windshield Wiper |
| R4 | Rheostat, Pilot Inst. Light Dim. |
| R5 | Rheostat, Sec. Instrument Light Dim |
| R6 | Rheostat, Overhead Console |
| R7 | Resistor, Navigation Lights Dim |
| R8 | Rheostat, Ped. Lights Dim |
| R9 | Rheostat, Eng. Inst. Light Dim |
| R10 | Rheostat, Copilot Inst. Lights Dim |
| R11 | Resistor, Fire Det. Cont. |
| R12 | Resistor, Spool Thermocouple |
| R21 | Rheostat, Aft Dome Lights |
| R26 | Rheostat, Course Ind. Light Dim |
| R27 | Resistor, AC Load Balancing |
| S1 | Switch, Aft Dome Light |
| S2 | Switch, Rotary (AC VM Sel.) |
| S4 | Switch, XMSN Sump Insp. Light |
| S5 | Switch, Fuel Quantity Test |
| S6 | Switch, Starter (Pilot Coll.) |
| S7 | Switch, Hydraulic Boost Cont. |
| S8 | Switch, Gen. (ON-OFF Reset) |
| S9 | Switch, Pitot Heater |
| S10 | Switch, Force Trim (Copilot Cyc.) |
| S11 | Switch, Rotary (AC VM Sel.) |
| S12 | Switch, Searchlight Cont. |
| S13 | Switch, Navigation Lights (Flash Steady) |
| S14 | Switch, Nav. Lights (Bright-Dim) |
| S18 | Switch, Force Trim (Pilot Cyc.) |
| S20 | Switch, Test (Fire Det.) |
| S23 | Switch, Windshield Wiper |
| S25 | Switch, Landing Lt. (Ext.-Retr) |
| S26 | Switch, XMSN Oil Temp. |
| S27 | Switch, Hydraulic Pressure |
| S28 | Switch, XMSN Oil Pressure Warn. |
| S29 | Switch, Engine Oil Pressure Warn. |
| S31 | Switch, Limit (Ext. Power Door) |
| S32 | Switch, Cargo Release (Pilot) |
| S33 | Switch, Governor (Auto-Emer.) |
| S35 | Switch, Forward Dome Light |
| S36 | Switch, Cargo Release |
| S37 | Switch, RPM Gov. (Pilot) |
| S38 | Switch, Fuel (ON-OFF) |
| S39 | Switch, Inverter (Main-Spare) |
| S40 | Switch, Battery (ON-OFF) |
| S41 | Switch, Upper Float |
| S42 | Switch, Lower Float |
| S44 | Switch, Fuel-Low Level |
| S45 | Switch, Fuel-Transfer L/H |
| S46 | Switch, Fuel-Transfer R/H |
| S50 | Switch, Idle Stop Rel (Pilot) |
| S51 | Switch, RPM Gov. (Copilot) |
| S58 | Switch, Fuel Diff. Pressure |
| S59 | Switch, Anti-Coll. Light |
| S62 | Switch, Non-Ess Bus Cont. |
| S63 | Switch, Ext. Fuel Jett. |
| S68 | Switch, Force Trim |
| S70 | Switch, Starter-Generator |
| S73 | Switch, Overheat Bleed Air |
| S75 | Switch, Search (ON STOW) |
| S76 | Switch, Landing Light (ON-OFF) |
| S77 | Switch, Starter (Copilot Coll.) |
| S78 | Switch, Cargo Rel. (Copilot) |
| S79 | Switch, Fuel Ejector Flow Sw. L/H |
| S80 | Switch, Fuel Ejector Flow Sw. R/H |
| S81 | Switch, De-Ice (ON-OFF) |
| S83 | Switch, Bleed Air (ON-OFF) |
| S84 | Switch, Bleed Air (HT-DEF) |
| S85 | Switch, Aft Outlet (Htr) |
| S87 | Switch, Aft-Outlet Limit |
| S88 | Switch, Start Fuel |
| S93 | Switch, Hi-Low RPM |
| S94 | Switch, Fuel Filter Bypass |
| S111 | Switch, Fuel Trans. Pump |
| S112 | Switch, Pilot Hoist Cont. |
| S114 | Switch, Fire Control |
| S115 | Switch, Fire Control |
| S124 | Switch, Sel-Windshield Wiper |
| S134 | Switch, Chip Det. Sel. |
| S195 | Switch, Diff. Pressure |
| T1 | Transformer 115/28V |
| TB1 | Term. Blk, Forward Inst. Panel. |
| TB2 | Term. Blk. Overhead Console R/H |
| TB3 | Term. Blk. Overhead Console L/H |
| TB4 | Term. Blk. Aft Fuel Cell |
| TB9 | Term. Blk. Top Ext. & Dome Lights |
| TB12 | Term. Blk. Ped. Panel Edge Lights |
| TB13 | Term. Blk. Inst. Panel Lights |
| TB14 | Term. Blk. Inst. Panel Sec. Ligh |
| TB15 | Term. Blk. Cockpit Lights L/H |
| TB16 | Term. Blk. Cockpit Lights R/H |
| TB25 | Term. Blk. Thermocouple Ind. |
| TB26 | Term. Blk. DC Gnd. & Audio |
| TB27 | Term. Blk. Aft Thermo Lead |
| TB29 | Term. Blk. Instrument Gnd. |
| TB34 | Term. Blk. Aft Dome Lt. Panel. |
| TB35 | Term. Blk. R/H Fuel Cell |
| TB36 | Term. Blk. Ext. Power Diode |
| TB38 | Term. Blk. L/H Fuel Cell |
| TB39 | Term. Blk. Electrical Compt. Aft |
| TB60 | Term. Blk. Batt. Voltage, Forward |
| TB61 | Term. Blk. Batt. Voltage, Aft |
| TB100 | Term. Blk. Pilot and Copilot 5v Power Supply |
| VR1 | Regulator - Voltage (Main Gen.) |
| VR2 | Regulator - Voltage (Stby Gen.) |
| W1 | Cable Assembly, Fire Det. |
| Z2 | Engine Ignition Unit |
| Z3 | Flasher Unit - Navigation Lights |

Table F-1. Equipment List — Helicopters Serial No. 65-9565 Through 65-12895 (Cont)

| ITEM NO. | DESCRIPTION | ITEM NO. | DESCRIPTION |
|---|---|---|---|
| Z5 | XMSN Oil Temperature Bulb | Z16 | Fuel Qty. Tank Unit - Aft |
| Z6 | Engine Oil Temperature Bulb | Z17 | Displacement - Roll and Pitch Gyro |
| Z8 | Ice Interpreter | Z18 | Rate Switching Gyro |
| Z9 | Fire Det. Cont. | Z22 | Fuel Qty. Tank Unit R/H Forward |
| Z13 | Ice Detector | | |

Table F-2. Equipment List — Helicopters Serial No. 66-746 Through 66-17144

| ITEM NO. | DESCRIPTION | ITEM NO. | DESCRIPTION |
|---|---|---|---|
| A1 | Panel, DC Power | E1 | Detector, Magnetic Chip |
| A2 | Panel, AC Power | E2 | Detector, Magnetic Chip |
| A3 | Panel, Engine | E3 | Detector, Magnetic Chip |
| A4 | Panel, Caution | E4 | Detector, Magnetic Chip |
| A6 | Panel, Instrument Lights | | |
| A7 | Panel, Exterior Lights | G2 | Generator, 30 VDC (300A) |
| A8 | Panel, Hydraulic Cont. | G3 | Generator, Tach. (Gas Prod.) |
| A10 | Panel, Misc. | G4 | Generator, Tach. (Pwr. Turb.) |
| A11 | Panel, Heating | G5 | Generator, Tach (Rotor) |
| A12 | Cargo, Hook Assembly | G6 | Generator, Starter 28V (200A) |
| A13 | Panel, Resistor | HR1 | Heater, Pilot Tube |
| A14 | Panel, AC Circuit Breaker | | |
| A15 | Panel, Overhead Console | I1 | Indicator, Attitude (Copilot) |
| A20 | Panel, Assembly Aft Dome Lts. | I2 | Indicator, Fuel Qty. |
| A21 | Panel, Dome Light Pitot Heater | I3 | Indicator, Torque - Pilot |
| A26 | Panel, Assembly Ext. Fuel | I4 | Indicator, Oil Press. (Eng.) |
| | | I5 | Indicator, Oil Press. (XMSN) |
| B1 | Synchro XMTR, Torque Press. | I6 | Indicator, Fuel Pressure |
| B3 | Synchro XMTR, XMSN Oil Press. | I7 | Indicator, Tach. (Gas Prod.) |
| B3 | Synchro XMTR, Eng. Oil Press | I8 | Indicator, Tach. Dual (Pilot) |
| B4 | Synchro XMTR, Fuel Press. | I9 | Light, Utility (Pilot) |
| B5 | Motor, Fuel Shut-Off Valve | I10 | Light, Dome |
| B6 | Motor, R/H Fuel Boost Pump | I11 | Light Search |
| B7 | Motor, Windshield Wiper | I12 | Light, Fire Warning |
| B8 | Motor, R/H Aux. Fuel Pump | I13 | Light, Master Caution |
| B12 | Motor, Gov. RPM Actuator | I14 | Light, Instrument Secondary |
| B13 | Motor, L/H Aux. Fuel Pump | I15 | Lamp, Instrument & Edge Lights |
| B19 | Motor, Bleed Air Valve | I16 | Light, Landing |
| B22 | Motor, Boom Actuator Hoist | I17 | Light, Left Navigation |
| B31 | Motor, Copilot Windshield Wiper | I18 | Light, Right Navigation |
| B33 | Motor, Winch Assy. Hoist | I19 | Light, Tail |
| B34 △1 | Motor, Bleed Air Valve | I20 | Light, Top Fuselage |
| BT2 | Battery | I21 | Indicator XMSN Oil Temp. |
| | | I22 | Indicator, Engine Oil Temp. |
| C1 | Capacitor, PF (Corr (MIL-C-25) | I23 | Indicator, Turn & Slip (Pilot) |
| C7 | Capacitor, Filter | I25 | Light, XMSN Sump Inspect |
| CB1 | Circuit Breaker (5A) | I26 | Light, Bottom Fuselage |
| CB2 | Circuit Breaker (10A) | I28 | Light, Utility (Copilot) |
| CB3 | Circuit Breaker (15A) | I31 | Indicator, Exhaust Temp. (Pilot) |
| CB4 | Circuit Breaker (20A) | I34 | Standby, Compass (Pilot) |
| CB5 | Circuit Brekaer (25A) | I40 | Light, Anti-Collision |
| CB6 | Circuit Breaker (1A) | I42 | Indicator, Attitude (Pilot) |
| CB7 | Circuit Breaker (35A) | I44 | Light, Cargo Release Armed |
| CB8 | Circuit Breaker (2A) | I45 | Light, Hi-Lo RPM Warn. |
| CB11 | Circuit Breaker (7.5A) | I72 △2 | Light, Air Filter Warning |
| CB12 | Circuit Breaker (50A) | | |
| CP1 | Fuel Qty. Sys. "J" Box, Unshielded | J2 | Recept. Pitot Tube Heater |
| CP2 | Fuel Qty. Sys. "J" Box Shielded | J3 | Recept. Instr. Panel Disc. |
| CR2 | Diode, External Power Relay | J4 | Recept. Fuel Qty. Ind. |
| CR30 | Diode, Batt. Voltage Fwd. Loc | J5 | Recept. Fuel Press. Ind. |
| CR31 | Diode, Batt. Voltage Aft Loc | J6 | Recept. Copilot Att. Ind. |
| | | J7 | Recept. Engine Oil Temp. Ind. |
| D1 | Inverter (Main) | J8 | Recept. Engine Oil Press. Ind. |
| D2 | Inverter (Spare) | J9 | Recept. Pilot Dual Tach. Rotor |
| DS1 | Control Assy, RPM Warning | J10 | Recept. Pilot Dual Tach. Pwr. Turb. |

**Table F-2. Equipment List — Helicopters Serial No. 66-746 Through 66-17144 (Cont)**

| ITEM NO. | DESCRIPTION | ITEM NO. | DESCRIPTION |
|---|---|---|---|
| J11 | Recept. XMSN Oil Temp. Ind. | J102 | Recept. Standby Compass (Pilot) |
| J12 | Recept. XMSN Oil Press. Ind. | J105 | Recept. Heated Blanket L/H |
| J13 | Recept. Pilot 5v Power Supply | J106 | Recept. Heated Blanket R/H |
| J14 | Recept. Copilot 5v Power Supply | J107 | Recept. Copilot Collective Stick |
| J15 | Recept. Pilot Torque Meter | J108 | Recept. Fuel Diff. Press. Sw. |
| J16 | Recept. Pilot Turn & Slip Ind. | J109 | Recept. External Power |
| J17 | Recept. Gas Prod. Tach. | J110 | Recept. Anti-Collision Light Disc. |
| J20 | Recept. Pilot Cyclic Stick | J111 | Recept. Anti-Collision Light |
| J21 | Recept. Hydraulic Cont. Panel | J112 | Recept. Mag. Brake Anti-Torque |
| J22 | Recept. Copilot Cyclic Stick | J113 | Recept. Mag. Brake Fore & Aft |
| J23 | Recept. Engine Panel | J114 | Recept. Mag. Brake - Lat. |
| J24 | Recept. Caution Panel | J115 | Recept. Test-Eng. Vibration Meter |
| J25 | Recept. Pilot Collective Stick | J119 | Recept. Cabin Roof Disc. Hoist |
| J26 | Recept. Windshield Wiper (Pilot) | J127 ⚠ | Recept. Var. Mix. Valve Disc. |
| J28 | Recept. Hydraulic Bypass Sol. | J129 | Recept. Displacement Roll & Pitch Gyro |
| J29 | Recept. Hydraulic Press. Warning Sw. | J130 | Recept. Rate Switch Gyro |
| J31 | Recept. Cargo Hook | J131 | Recept. Attitude Ind. |
| J32 | Recept. Cargo Sling Disc. | J135 | Recept. Ice Interpreter |
| J35 | Recept. Rotor, Tach. Gen. | J136 | Recept. Ice Interpreter |
| J36 | Recept. XMSN Oil Press. Sw. | J138 | Recept. Door Post Outlet Valve Act. |
| J37 | Recept. XMSN Oil Temp. Bulb | J146 | Recept. Bleed Air Valve |
| J38 | Recept. Copilot Windshield Wiper | J147 | Recept. Internal Aux. Fuel Disc L/H |
| J39 | Recept. XMSN Oil Press. XMTR | J148 | Recept. Internal Aux. Fuel Disc. R/H |
| J41 | Recept. XMSN Disc. | J155 | Recept. Hi-Lo RPM Warning |
| J42 | Recept. Fuel Tank Disc. L/H | J156 | Recept. Engine Fuel Filter Bypass Sw. |
| J43 | Recept. Compensator Fuel Tank Disc L/H | J166 | Recept. Aft Outlet Valve |
| J44 | Recept. Fuel Tank Disc. L/H | J191 | Recept. Main Inverter Power |
| J53 | Recept. Bulkhead Feed-thru-Aft Fuel Cell | J102 | Recept. Spare Inverter Power |
| J54 | Recept. Bulkhead Feed-thru-Aft Fuel Cell | J194 | Recept. Engine Chip Detector |
| J57 | Recept. Ext. Fuel Cont. Panel | J268 | Recept. Hoist Cont. Box |
| J60 | Recept. Socket, Relay-Gen-Field | J269 | Recept. Hoist Cont. Box |
| J64 | Recept. Torque Press. XMTR | J270 | Recept. Hoist Cont. Box |
| J65 | Recept. Engine Oil Press. XMTR | J271 | Recept. Hoist Cont. Box |
| J66 | Recept. Fuel Press. XMTR | J272 | Recept. Hoist Cont. Box |
| J68 | Recept. Disc. Muff Heater | J273 | Recept. Hoist Cont. Pendent |
| J71 | Recept. Engine Fuel Valve | J274 | Recept. Hoist Boom Act. |
| J72 | Recept. Engine Oil Press. Sw. | J275 | Recept. Hoist Winch Assembly |
| J74 | Recept. Battery Disc. | J1017 | Recept. Ext. Fuel Disc. L/H |
| J75 | Recept. Navigation Lights Flasher | J1024 | Recept. Ext. Fuel Disc. R/H |
| J77 | Recept. Ice Detector | K1 | Relay, Ext. Power |
| J80 | Recept. Engine Air Filter Press. Sw. | K2 | Relay, Non-Ess Bus |
| J81 | Recept. Starter-Deck | K3 | Relay, Starter |
| J84 | Recept. De-Icing Hot Air Valve | K4 | Relay, Bus Cont. (Gen Fail) |
| J85 | Recept. Engine Oil Temp. Bulb | K5 | Relay, Reverse Curr. (Main) |
| J86 | Recept. Power Turbine Tach. | K6 | Relay, Overvoltage |
| J87 | Recept. Gas Turbine Tach. | K7 | Relay, Gen Field |
| J89 | Recept. Primer Valve (Fuel Ign. Sol.) | K8 | Relay, AC Failure |
| J90 | Recept. Fuel Cont. Sol. Valve | K9 | Relay, Battery |
| J91 | Recept. Engine Disc. | K10 | Relay, Fuel Transfer |
| J92 | Recept. Engine Forward Disc. | K15 | Relay, Standby Gen Field |
| J93 | Recept. Fire Det. Forward Disc. | K23 | Relay, Standby Gen. Rev. Curr. |
| J94 | Recept. Fire Det. Element R/H | K24 | Relay, Cargo Hook Release |
| J95 | Recept. Fire Det. Element L/H | K27 | Relay, Inverter |
| J96 | Recept. Fire Det. Element R/H | K32 | Relay, Hoist Power |
| J97 | Recept. Fire Det. Element L/H | K35 | Relay, Main Invtr. Power |
| J98 | Recept. Tail Light Disc. | K36 | Relay, Spare Invtr. Power |
| J99 | Recept. Thermocouple Disc. | | |

Table F-2. Equipment List — Helicopters Serial No. 66-746 Through 66-17144 (Cont)

| ITEM NO. | DESCRIPTION | ITEM NO. | DESCRIPTION |
|---|---|---|---|
| K37 | Relay, Lo-Fuel Caution Light | P42 | Plug, Shld Tank Unit Disc. (L/H Tank) |
| K38 | Relay, Lo-Fuel Caution Light | P43 | Plug, Monitor Tank Unit Disc.(L/H Tank) |
| K46 | Relay, Overheat | P44 | Plug, Unshld Tank Unit Disc. (L/R Tank) |
| K65 | Relay, Battery Aft Location | P46 | Plug, Fuel Tank Disc. L/H Cell |
| K66 | Relay, Battery Feeder | P46 | Plug, Fuel Tank Disc. L/H Cell |
| L1 | Solenoid, Primer (Ignition) | P48 | Plug, Fuel Tank Disc. L/H Cell |
| L2 | Solenoid, Fuel Cont. Valve | P53 | Plug, Unshld Tank Unit - Aft Cell |
| L4 | Solenoid, Hydraulic Bypass | P54 | Plug, Shielded Tank Unit - Aft Cell |
| L6 | Solenoid, Hot-Air De-Icer | P55 | Plug, Fuel Tank Disc. - Aft Cell |
| L7 | Solenoid, Idle Stop Rel. | P56 | Plug, Fuel Tank Disc. - Aft Cell |
| L8 | Mag. Brake - Anti-Torque Force Trim | P57 | Plug, Ext. Fuel Cont. Panel |
| L9 | Mag. Brake - Fore & Aft Force Trim | P60 | Plug, Field Relay Gen. |
| L10 | Mag. Brake - Lat Force Trim | P64 | Plug, Torque Press. XMTR |
| L14 | Solenoid, Door Post Htr. Outlet Valve | P65 | Plug, Eng. Oil Press XMTR |
| L15 | Solenoid, Aft Outlet Valve Act. | P66 | Plug, Fuel Press. XMTR |
| L21 ⚠ | Solenoid, Var. Mix Valve | P68 | Plug, Muff Heater Disc. |
| M1 | Meter, DC Load (Standby Gen) | P71 | Plug, Fuel Valve Shut-Off |
| M2 | Meter, DC Volts | P72 | Plug, Engine Oil Press. Sw. |
| M3 | Meter, AC Volts | P74 | Plug, Battery Disc. |
| M4 | Meter, DC Load (Main Gen) | P75 | Plug, Nav. Lights Flasher |
| O2 | Guard, Gen-Sw. DC Power Panel | P77 | Plug, Ice Detector |
| O3 | Guard, Cable Out Sw-Hydraulic Panel | P80 | Plug, Engine Filter Press. Sw. |
| P2 | Plug, Pitot Tube Htr | P81 | Plug, Starter Deck |
| P3 | Plug, Inst. Panel Conn. | P84 | Plug, De-Ice Hot Air Valve |
| P4 | Plug, Fuel Qty. Ind. | P85 | Plug, Oil Temp. Bulb |
| P5 | Plug, Fuel Press. Ind. | P86 | Plug, Power Turb. Tach. |
| P6 | Plug, Copilot Att. Ind. | P87 | Plug, Gas Prod. Tach. |
| P7 | Plug, Engine Oil Temp. Ind. | P88 | Plug, Ignition Unit - Engine |
| P8 | Plug, Engine Oil Press. Ind. | P89 | Plug, Ignition Sol. Valve |
| P9 | Plug, Pilot Dual Tach. (Rotor) | P90 | Plug, Fuel Cont. Sol. Valve |
| P10 | Plug, Pilot Dual Tach. (Power-Turb.) | P91 | Plug, Engine Disc. |
| P11 | Plug, XMSN Oil Temp. Ind. | P92 | Plug, Engine Forward Disc. |
| P12 | Plug, XMSN Oil Press. Ind. | P93 | Plug, Fire Det. Forward Disc. |
| P13 | Plug, Pilot 5v Power Supply | P94 | Plug, Fire Det. Element - R/H |
| P14 | Plug, Copilot 5v Power Supply | P95 | Plug, Fire Det. Element - L/H |
| P15 | Plug, Pilot Torque Meter | P96 | Plug, Fire Det. Element - R/H |
| P1 | Plug, Pilot Turn & Slip Ind. | P97 | Plug, Fire Det. Element - L/H |
| P17 | Plug, Gas Prod Turb. Tach. | P98 | Plug, Tail Light Disc. |
| P20 | Plug, Pilot's Cyclic Stick | P99A | Plug, Thermocouple Disc - Engine |
| P21 | Plug, Hydraulic Cont. Panel | P99B | Plug, Thermocouple Disc - Engine |
| P22 | Plug, Copilot Cyclic Stick | P102 | Plug, Standby Compass (Pilot) |
| P23 | Plug, Engine Panel | P107 | Plug, Copilot Coll. Stick. |
| P24 | Plug, Caution Panel | P108 | Plug, Fuel Diff. Press. Sw. |
| P25 | Plug, Pilot Collective Stick | P110 | Plug, Anti Coll. Light Disc. |
| P26 | Plug, Windshield Wiper (Pilot) | P111 | Plug, Anti Coll. Light |
| P28 | Plug, Hydraulic Bypass Sol. Valve | P112 | Plug, Mag. Brake - Anti-Torque |
| P29 | Plug, Hydraulic Press. Warning Sw. | P113 | Plug, Mag. Brake - Fore & Aft |
| P31 | Plug, Cargo Hook | P114 | Plug, Mag. Brake - Lat. |
| P32 | Plug, Cargo Hook Disc. | P119 | Plug, Cabin Roof Disc. Hoist |
| P35 | Plug, Rotor Tachometer Gen. | P127 ⚠ | Plug, Var. Mix Valve Disc. |
| P36 | Plug, XMSN Oil Press. Sw. | P129 | Plug, Displacement, Roll & Pitch Gyro |
| P37 | Plug, XMSN Oil Temp. Bulb | P130 | Plug, Rate Switch Gyro |
| P38 | Plug, Copilot Windshield Wiper | P131 | Plug, Attitude Ind. |
| P39 | Plug, XMSN Oil Press. XMTR | P135 | Plug, Ice Interpreter |
| P41 | Plug, XMSN Dis. | P136 | Plug, Ice Interpreter |
| | | P138 | Plug, Door Post, Aft Out Val. Act. |

Table F-2. Equipment List — Helicopters Serial No. 66-746 Through 66-17144 (Cont)

| ITEM NO. | DESCRIPTION | ITEM NO. | DESCRIPTION |
|---|---|---|---|
| P146 | Plug, Bleed Air Valve | S25 | Switch, Landing Lt. (Ext. Retr) |
| P147 | Plug, Unshielded Tank Coupler Disc. | S26 | Switch XMSN Oil Temp. |
| P148 | Plug, Unshielded Tank Coupler Disc. | S27 | Switch, Hydraulic Press. |
| P149 | Plug, Unshielded Tank Coupler Disc. | S28 | Switch, XMSN Oil Press. Warn. |
| P151 | Plug, Shielded Tank Coupler Disc. | S29 | Switch, Eng. Oil Press. Warn. |
| P152 | Plug, Shielded Tank Coupler Disc. | S31 | Switch, Limit (Ext. Pwr. Door) |
| P153 | Plug, Shielded Tank Coupler Disc. | S32 | Switch, Cargo Release (Pilot) |
| P155 | Plug, Hi-Lo RPM Warning | S33 | Switch, Gov. (Auto-Emer) |
| P156 | Plug, Engine Fuel Filter Bypass | S35 △3 | Switch, Fwd. Dome Lt. |
| P166 | Plug, Aft Outlet Valve | S36 | Switch, Cargo Release |
| P191 | Plug, Inverter Disc. - Main | S37 | Switch, RPM Gov. (Pilot) |
| P192 | Plug, Inverter Disc. - Spare | S38 | Switch, Fuel (ON-OFF) |
| P194 | Plug, Engine Chip Detector | S39 | Switch, Invtr (Main - Spare) |
| P268 | Plug, Hoist to Ship | S40 | Switch, Battery (ON-OFF) |
| P269 | Plug, Cable, Out & Up Limit | S41 | Switch, Upper Float |
| P270 | Plug, Hoist to Cont. Pendant | S42 | Switch, Lower Float |
| P271 | Plug, Boom Act. | S44 | Switch, Fuel - Low Level |
| P272 | Plug, Hoist to Winch Assy | S45 | Switch, Fuel - Transfer L/H |
| P273 | Plug, Cont. Pendant | S46 | Switch, Fuel - Transfer R/H |
| P274 | Plug, Boom Act. | S49 | Switch, J-2 Comp. De-slave |
| P275 | Plug, Winch Assembly | S50 | Switch, Idle Stop Rel. (Pilot) |
| P1017 | Plug, Ext. Fuel Disc. L/H | S51 | Switch, RPM Gov. (Copilot) |
| P1024 | Plug, Ext. Fuel Disc. R/H | S58 | Switch, Fuel Diff. Press. |
| PS1 | Pilot, 5v Power Supply | S59 | Switch, Anti-Coll. Light |
| PS2 | Copilot, 5v Power Supply | S62 | Switch, Non-Ess Bus Cont. |
| R1 | Shunt, Ammeter (Stby Gen.) | S63 | Switch, Ext. Fuel Jett. |
| R2 | Shunt, Ammeter (Main Gen.) | S68 | Switch, Force Trim |
| R3 | Resistor - Windshield Wiper | S70 | Switch, Starter Gen. |
| R4 | Rheostat, Pilot Inst. Lt. Dim | S73 | Switch, Overheat Bleed Air |
| R5 | Rheostat, Sec. Inst. Lt. Dim | S75 | Switch, Searchlight (ON-STOW) |
| R6 | Rheostat, Overhead Console | S76 | Switch, Landing Light (ON-OFF) |
| R7 | Resistor, Navigation Lts. Dim | S77 | Switch, Starter (Copilot Coll) |
| R8 | Rheostat, Ped. Lights Dim | S78 | Switch, Cargo Rel (Copilot) |
| R9 | Rheostat, Engine Inst. Lights Dim | S79 | Switch, Fuel Ejector Flow Sw. L/H |
| R10 | Rheostat, Copilot Inst. Lights Dim | S80 | Switch, Fuel Ejector Flow Sw. R/H |
| R11 | Resistor, Fire Det. Cont. | S81 | Switch. De-Ice (ON-OFF) |
| R12 | Resistor, Spool Thermocouple | S83 | Switch, Bleed Air (ON-OFF) |
| R21 | Rheostat, Aft Dome Lts. | S84 △1 | Switch, Bleed Air (Ht-Def) |
| R26 | Rheostat, Course Ind. Lt. Dim | S85 | Switch, Aft Outlets (Htr) |
| R27 | Resistor, AC Load Balancing | S87 | Switch, Aft-Outlet Limit |
| S1 | Switch, Aft Dome Lt. | S88 △3 | Switch, Start Fuel |
| S2 | Switch, Rotary (DC VM Sel) | S93 | Switch, Hi-Lo RPM |
| S4 | Switch, XMSN Sump Inspection Lt. | S94 | Switch, Fuel Filter Bypass |
| S5 | Switch, Fuel Qty. Test | S96 | Switch, Cable Cut |
| S6 | Switch, Starter (Pilot Coll) | S97 | Switch, Cable Up Limit |
| S7 | Switch, Hydraulic Boost Cont. | S101 | Switch, Overload Sense |
| S8 | Switch, Gen. (ON-OFF-RESET) | S111 | Switch, Fuel Trans Pump |
| S9 | Switch, Pitot Heater | S112 | Switch, Pilot Hoist Cont. |
| S10 | Switch, Force Trim (Copilot Cyc.) | S114 | Switch, Fire Control |
| S11 | Switch, Rotary (AC VM Sel) | S115 | Switch, Fire Control |
| S12 | Switch, Searchlight Cont. | S124 | Switch, Sel-W/Wiper |
| S13 | Switch, Nav. Lts. (Flash Steady) | S134 | Switch, Chip Det. Sel |
| S14 | Switch, Nav. Lts. (Bright-Dim) | S195 | Switch, Diff. Press. |
| S18 | Switch, Force Trim (Pilot Cyc.) | T1 | Transformer 115/28V |
| S20 | Switch, Test (Fire Det.) | RB1 | Term. Blk. Fwd. Inst. Panel |
| S23 | Switch, Windshield Wiper | | |

Table F-2. Equipment List — Helicopters Serial No. 66-746 Through 66-17144 (Cont)

| ITEM NO. | DESCRIPTION | ITEM NO. | DESCRIPTION |
|---|---|---|---|
| TB2 | Term. Blk. Overhead Console R/H | W1 | Cable Assembly |
| TB3 | Term. Blk. Overhead Console L/H | | |
| TB4 | Term. Blk. Aft Fuel Cell | Z2 | Engine, Ignition Unit |
| TB9 | Term. Blk. Top Ext. & Dome Lts. | Z3 | Flasher Unit - Nav. Lts. |
| TB12 | Term. Blk. Ped. Panel Edge Lts. | Z5 | XMSN Oil Temp. Bulb |
| TB13 | Term. Blk. Inst. Panel Lts. | Z6 | Engine Oil Temp. Bulb |
| TB14 | Term. Blk. Inst. Panel Sec. Lts. | Z8 | Ice Interpreter |
| TB15 | Term. Blk. Cockpit Lts L/H | Z9 | Fire Det. Cont. |
| TB16 | Term. Blk. Cockpit Lts. R/H | Z13 | Ice Detector |
| TB25 | Term. Blk. Thermocouple Ind. | Z16 | Fuel Qty. Tank Unit - Aft |
| TB26 | Term. Blk. DC Gnd & Audio | Z17 | Displacement - Roll & Pitch Gyro |
| TB27 | Term. Blk. Aft Thermo Lead | Z18 | Rate Switching Gyro |
| TB29 | Term. Blk. Inst. Ground | Z22 | Fuel Qty. Tank Unit R/H Fwd. |
| TB34 | Term. Blk. Aft Dome Lt. Panel | Z24 | Hoist Control Box |
| TB35 | Term. Blk. R/H Fuel Cell | Z25 | Hoist Cable Cutter |
| TB36 | Term. Blk. Ext. Power Diode | Z41 | Hoist Control Pendant |
| TB38 | Term. Blk. Left-hand Fuel Cell | | |
| TB39 | Term. Blk. Elec. Compt. Aft | | |
| TB45 | Term. Blk. Pitot Heater - Disc. | | |
| TB60 | Term. Blk. Battery Voltage, Fwd. | | |
| TB61 | Term. Blk. Battery Voltage, Aft | | |
| TB100 | Term. Blk. Pilot and Copilot 5v Power Supply | | |
| VR1 | Regulator - Voltage (Main Gen) | | |
| VR2 | Regulator, Voltage (Stby Gen.) | | |

NOTES

△1 EFF 66-16868 thru 66-17144

△2 EFF 66-746 through 66-16867

△3 EFF 66-746 through 66-1210, 66-16000 through 66-16033

### Table F-3. Equipment List — Helicopters Serial No. 67-17145 Through 67-19537

| ITEM NO. | DESCRIPTION |
|---|---|
| A1 | Panel, DC Power |
| A2 | Panel, AC Power |
| A3 | Panel, Engine |
| A4 | Panel, Caution |
| A6 | Panel, Instrument Lights |
| A7 | Panel, Ext. Lights |
| A8 | Panel, Hydraulic Cont. |
| A10 | Panel, Miscellaneous |
| A11 | Panel, Heating |
| A12 | Cargo, Hook Assembly |
| A13 | Panel, Resistor |
| A14 | Panel, AC Circuit Breaker |
| A15 | Panel, Overhead Console |
| A20 | Panel Assembly Aft Dome Lights |
| A21 | Panel, Dome Lt. & Pitot Heater |
| A26 | Panel, Assembly Ext. Fuel |
| B1 | Syncro XMTR, Torque Press. |
| B2 | Syncro XMTR, XMSN Oil Press. |
| B3 | Syncro XMTR, Engine Oil Press. |
| B4 | Syncro XMTR, Fuel Press. |
| B5 | Motor, Fuel Shutoff Valve |
| B6 | Motor, R/H Fuel Boost Pump |
| B7 | Motor, Windshield Wiper |
| B8 | Motor, R/H Aux. Fuel Pump |
| B12 | Motor, Gov. RPM Actuator |
| B13 | Motor, L/H Aux. Fuel Pump |
| B22 | Motor, Boom Actuator Hoist |
| B31 | Motor, Copilot Windshield Wiper |
| B35 | Motor, Winch Assembly, Hoist |
| B34 | Motor, Bleed Air Valve |
| BT2 | Battery |
| C1 | Capacitor, PF Corr. (MIL-C-25) |
| C7 | Capacitor Filter, JN14 |
| CB1 | Circuit Breaker (5A) |
| CB2 | Circuit Breaker (10A) |
| CB3 | Circuit Breaker (15A) |
| CB4 | Circuit Breaker (20A) |
| CB5 | Circuit Breaker (25A) |
| CB6 | Circuit Breaker (1A) |
| CB7 | Circuit Breaker (35A) |
| CB8 | Circuit Breaker (2A) |
| CB11 | Circuit Breaker (7.5A) |
| CB12 | Circuit Breaker (50A) |
| CB13 | Circuit Breaker (1A) |
| CP1 | Coupler, Fuel Qty. Unshielded |
| CP2 | Coupler, Fuel Qty. Shielded |
| CR2 | Diode, Ext. Power Relay |
| CR30 | Diode, Battery Voltage Fwd. Loc |
| CR31 | Diode, Battery Voltage, Aft Loc |
| D1 | Inverter (Main) |
| D2 | Inverter (Spare) |
| DS1 | Control Assembly RPM Warn. |
| E1 | Detector Magnetic Chip |
| E2 | Detector Magnetic Chip |
| E3 | Detector, Magnetic Chip |
| G2 | Generator, 30VDC (300A) |
| G3 | Generator, Tach (Gas Prod) |
| G4 | Generator, Tach (Pwr Turb) |
| G5 | Generator, Tach (Rotor) |
| G6 | Generator, Starter 28V (200A) |
| HR1 | Heater, Pitot Tube |
| I1 | Indicator, Attitude (Copilot) |
| I2 | Indicator, Fuel Qty. |
| I3 | Indicator, Torque - Pilot |
| I4 | Indicator, Oil Press (Eng) |
| I5 | Indicator, Oil Press (XMSN) |
| I6 | Indicator, Fuel Press. |
| I7 | Indicator, Tach (Gas Prod) |
| I8 | Indicator, Tach Dual (Pilot) |
| I9 | Light, Utility (Pilot) |
| I10 | Light, Dome |
| I11 | Light, Search |
| I12 | Light, Fire Warning |
| I13 | Light, Master Caution |
| I14 | Light, Instr. Secondary |
| I15 | Lamp, Instr. & Edge Lights |
| I16 | Light, Landing |
| I17 | Light, Left Nav. |
| I18 | Light, Right Nav. |
| I19 | Light, Tail |
| I20 | Light, Top Fuselage |
| I21 | Indicator, XMSN Oil Temp. |
| I22 | Indicator, Eng. Oil Temp. |
| I23 | Indicator, Turn & Slip (Pilot) |
| I25 | Light, XMSN Sump Inspect |
| I26 | Light, Bottom Fuselage |
| I28 | Light, Utility (Copilot) |
| I31 | Indicator, Exh. Temp. (Pilot) |
| I34 | Standby Compass (Pilot) |
| I40 | Light, Anti-Collision |
| I42 | Indicator, Attitude (Pilot) |
| I44 | Light, Cargo Release Armed |
| I45 | Light, Hi-Lo RPM Warn. |
| J2 | Recept. Pitot Tube Heater |
| J3 | Recept. Instrument Panel Disc. |
| J4 | Recept. Fuel Quantity Ind. |
| J5 | Recept. Fuel Press. Ind. |
| J6 | Copilot Att. Ind. |
| J7 | Recept. Engine Oil Temp. Ind. |
| J8 | Recept. Engine Oil Press. Ind. |
| J9 | Recept. Pilot Dual Tach. Rotor |
| J10 | Recept. Pilot Dual Tach. Pwr. Turb. |
| J11 | Recept. XMSN Oil Temp. Ind. |
| J12 | Recept. XMSN Oil Press. Ind. |
| J13 | Recept. Pilot 5v Power Supply |
| J14 | Recept. Copilot 5v Power Supply |

**Table F-3. Equipment List — Helicopters Serial No. 67-17145 Through 67-19537 (Cont)**

| ITEM NO. | DESCRIPTION | ITEM NO. | DESCRIPTION |
|---|---|---|---|
| J15 | Recept. Pilot Torque Meter | J110 | Recept. Anti-Coll. Lt. Disc. |
| J16 | Recept. Pilot Turn & Slip Ind. | J111 | Recept. Anti-Coll. Light |
| J17 | Recept. Gas Prod. Tach. | J112 | Recept. Mag. Brake - Anti-Torque |
| J20 | Recept. Pilot Cyclic Stick | J113 | Recept. Mag. Brake - Fore & Aft |
| J23 | Recept. Engine Panel | J114 | Recept. Mag. Brake Lat. |
| J24 | Recept. Caution Panel | J115 | Recept. Test - Eng. Vibration Meter |
| J25 | Recept. Pilot Coll. Stick | J119 | Recept. Cabin Roof Disc. Hoist |
| J26 | Recept. Windshield Wiper | J127 | Recept. Var. Mix. Valve Disc. |
| J28 | Recept. Hydraulic Bypass Sol. | J129 | Recept. Displacement Roll & Pitch Gyro |
| J29 | Recept. Hydraulic Press. Warn. Sw. | J130 | Recept. Rate Switch Gyro |
| J31 | Recept. Cargo Hook | J131 | Recept. Attitude Indicator |
| J32 | Recept. Cargo Sling Disc. | J135 | Recept. Ice Interpreter |
| J35 | Recept. Rotor, Tach. Gen. | J136 | Recept. Ice Interpreter |
| J36 | Recept. XMSN Oil Press. Sw. | J138 | Recept. Door Post Outlet Valve Act. |
| J37 | Recept. XMSN Oil Temp. Bulb | J146 | Recept. Bleed Air Valve |
| J38 | Recept. Copilot Windshield Wiper | J147 | Recept. Internal Aux. Fuel Disc. L/H |
| J39 | Recept. XMSN Oil Press. XMTR | J148 | Recept. Internal Aux. Fuel Disc. R/H |
| J41 | Recept. XMSN Disc. | J155 | Recept. Hi-Lo RPM Warn. |
| J42 | Recept. Fuel Tank Disc R/H | J156 | Recept. Eng. Fuel Filter Bypass Sol. |
| J43 | Recept. Compensator Fuel Tank Disc R/H | J166 | Recept. Aft Outlet Valve |
| J44 | Recept. Fuel Tank Disc. R/H | J191 | Recept. Main Invtr. Pwr. |
| J53 | Recept. Blkhd Feed-thru-Aft Fuel Cell | J192 | Recept. Spare Invtr. Pwr. |
| J54 | Recept. Blkhd Feed-thru-Aft Fuel Cell | J194 | Recept. Engine Chip Detector |
| J57 | Recept. Ext. Fuel Cont. Panel | J267 | Recept. Battery Disc. Aft |
| J60 | Recept. Socket, Relay-Gen. Field | J268 | Recept. Hoist Cont. Box |
| J64 | Recept. Torque Press. XMTR | J269 | Recept. Hoist Cont. Box |
| J65 | Recept. Engine Oil Press. XMTR | J270 | Recept. Hoist Cont. Box |
| J66 | Recept. Fuel Press. XMTR | J271 | Recept. Hoist Cont. Box |
| J68 | Recept. Disc. Muff Heater | J272 | Recept. Hoist Cont. Box |
| J71 | Recept. Engine Fuel Valve | J273 | Recept. Hoist Cont. Pendant |
| J72 | Recept. Engine Oil Press. Sw. | J274 | Recept. Hoist Cont Boom Act. |
| J74 | Recept. Battery Disc. Fwd. | J275 | Recept. Hoist Winch Assy. |
| J75 | Recept. Nav. Lights Flasher | J1017 | Recept. Ext. Fuel Disc L/H |
| J77 | Recept. Ice Detector | J1024 | Recept. Ext. Fuel Disc. R/H |
| J80 | Recept. Eng. Air Filter Press. Sw. | | |
| J81 | Recept. Starter Deck | K1 | Relay, Ext. Power |
| J84 | Recept. De-Icing Hot Air Valve | K2 | Relay, Non-Ess Bus |
| J86 | Recept. Power Turb. Tach. | K3 | Relay, Starter |
| J88 | Recept. Ingition Unit, Eng. | K4 | Relay, Bus Cont. (Gen Fail) |
| J89 | Recept. Primer Valve (Fuel Ign. Sol.) | K5 | Relay, Reverse Curr (Main) |
| J90 | Recept. Fuel Cont. Sol. Valve | K6 | Relay, Over Voltage |
| J91 | Recept. Engine Disc. | K7 | Relay, Gen. Field |
| J92 | Recept. Engine Forward Disc. | K8 | Relay, AC Failure |
| J93 | Recept. Fire Det. Fwd. Disc. | K9 | Relay, Battery |
| J94 | Recept. Fire Det. Element R/H | K10 | Relay, Fuel Transfer |
| J95 | Recept. Fire Det. Element L/H | K15 | Relay, Standby Gen. Field |
| J96 | Recept. Fire Det. Element R/H | K23 | Relay, Standby Gen. Rev. Curr. |
| J97 | Recept. Fire Det. Element L/H | K24 | Relay, Cargo Hook Release |
| J98 | Recept. Tail Light Disc. | K27 | Relay, Inverter |
| J99 | Recept. Thermocouple Disc. | K32 | Relay, Hoist Power |
| J102 | Recept. Standby Compass (Plt) | K35 | Relay, Main Invtr. Pwr. |
| J105 | Recept. Heated Blanket L/H | K36 | Relay, Spare Invtr. Pwr. |
| J106 | Recept. Heated Blanket R/H | K37 | Relay, Lo-Fuel Caution Lt. |
| J107 | Recept. Copilot Coll. Stick | K38 | Relay, Lo-Fuel Caution Lt. |
| J108 | Recept. Fuel Diff. Press. Sw. | K46 | Relay, Overheat |
| J109 | Recept. Ext. Power | K65 | Relay, Battery Aft Location |

Table F-3. Equipment List — Helicopters Serial No. 67-17145 Through 67-19537 (Cont)

| ITEM NO. | DESCRIPTION |
|---|---|
| K66 | Relay, Battery Feeder |
| L1 | Solenoid, Primer (Ignition) |
| L2 | Solenoid, Fuel Cont. Valve |
| L4 | Solenoid, Hydraulic Bypass |
| L6 | Solenoid, Hot-Air De-Ice |
| L7 | Solenoid, Idle Stop Rel. |
| L8 | Mag. Brake - Anti-Torque Force Trim |
| L9 | Mag. Brake - Fore & Aft Force Trim |
| L10 | Mag. Brake - Lat. Force Trim |
| L14 | Solenoid, Door Post Aft Outlet Valve |
| L15 | Solenoid, Aft Outlet Valve Act. |
| L21 | Solenoid, Var. Mix Valve |
| M1 | Meter, DC Load (St-by Gen.) |
| M2 | Meter, DC Volts |
| M3 | Meter, AC Volts |
| M4 | Meter, DC Load (Main Gen.) |
| O2 | Guard-Gen. Sw. - DC Pwr. Panel |
| O3 | Guard-Cable Cut Sw. - Hyd Panel |
| P2 | Plug, Pitot Tube Htr. |
| P3 | Plug, Inst. Panel Conn. |
| P4 | Plug, Fuel Qty. Ind. |
| P5 | Plug, Fuel Press. Ind. |
| P6 | Plug, Copilot Att. Ind. |
| P7 | Plug, Eng. Oil Temp. Ind. |
| P8 | Plug, Eng. Oil Press. Ind. |
| P9 | Plug, Pilot Dual Tach. (Rotor) |
| P10 | Plug, Pilot Dual Tach. (Pwr Turb.) |
| P11 | Plug, XMSN Oil Temp. Ind. |
| P12 | Plug, XMSN Oil Press. Ind. |
| P13 | Plug, Pilot 5v Power Supply |
| P14 | Plug, Copilot 5v power Supply |
| P15 | Plug, Pilot Torque Meter |
| P16 | Plug, Pilot Turn & Slip Ind. |
| P17 | Plug, Gas Prod. Turb. Tach. |
| P20 | Plug, Pilot's Cyclic Stick |
| P21 | Plug, Hydraulic Cont. Panel |
| P22 | Plug, Copilot Cyclic Stick |
| P23 | Plug, Engine Panel |
| P24 | Plug, Caution Panel |
| P25 | Plug, Pilot Coll. Stick |
| P26 | Plug, Windshield Wiper |
| P28 | Plug, Hyd. Bypass Solenoid Valve |
| P29 | Plug, Hyd. Press. Warning Sw. |
| P31 | Plug, Cargo Hook |
| P32 | Plug, Cargo Hook Disc. |
| P35 | Plug, Rotor Tach. Gen. |
| P36 | Plug, XMSN Oil Press. Sw. |
| P37 | Plug, XMSN Oil Temp. Bulb |
| P38 | Plug, Copilot W/S Wiper |
| P39 | Plug, XMSN Oil Press. XMTR |
| P41 | Plug, XMSN Disc. |
| P42 | Plug, Shielded Tank Unit Disc (R/H Tank) |
| P43 | Plug, Monitor Tank Unit Disc (R/H Tank) |
| P44 | Plug, Unshielded Tank Unit Disc (R/H Tank) |
| P46 | Plug, Fuel Tank Disc R/H Cell |
| P47 | Plug, Fuel Tank Disc. R/H Cell |
| P48 | Plug, Fuel Tank Disc. R/H Cell |
| P53 | Plug, Unshld Tank Unit - Aft Cell |
| P54 | Plug, Shld Tank Unit - Aft Cell |
| P55 | Plug, Fuel Tank Disc - Aft Cell |
| P56 | Plug, Fuel Tank Disc - Aft Cell |
| P57 | Plug, Ext. Fuel Cont. Panel |
| P60 | Plug, Field Relay Gen. |
| P64 | Plug, Torque Press. XMTR |
| P65 | Plug, Engine Oil Press. XMTR |
| P66 | Plug, Fuel Press. XMTR |
| P68 | Plug, Muff Heater Disc. |
| P71 | Plug, Fuel Valve Shut-off |
| P72 | Plug, Eng. Oil Press. Sw. |
| P74 | Plug, Battery Disc. Fwd. |
| P75 | Plug, Nav. Lts. Flasher |
| P77 | Plug, Ice Detector |
| P80 | Plug, Eng. Air Filter Press. Sw. |
| P81 | Plug, Starter Deck |
| P84 | Plug, De-icing Hot Air Valve |
| P85 | Plug, Oil Temp. Bulb |
| P86 | Plug, Pwr. Turb. Tach. |
| P87 | Plug, Gas Prod. Tach. |
| P88 | Plug, Ignition Unit - Engine |
| P89 | Plug, Ignition Sol. Valve |
| P90 | Plug, Fuel Cont. Sol. Valve |
| P91 | Plug, Engine Disc. |
| P92 | Plug, Engine Forward Disc. |
| P93 | Plug, Fire Det. Forward Disc. |
| P94 | Plug, Fire Det. Element R/H |
| P95 | Plug, Fire Det. Element L/H |
| P96 | Plug, Fire Det. Element R/H |
| P97 | Plug, Fire Det. Element L/H |
| P98 | Plug, Tail Light Disc. |
| P99A | Plug, Thermocouple Disc. Engine |
| P99B | Plug, Thermocouple Disc. Engine |
| P102 | Plug, Standby Compass (Pilot) |
| P107 | Plug, Copilot Coll. Stick |
| P108 | Plug, Fuel Diff. Press. Sw. |
| P110 | Plug, Anti-Coll. Lt. Disc. |
| P111 | Plug, Anti-Coll. Lt. |
| P112 | Plug, Mag. Brake Anti-Torque |
| P113 | Plug, Mag. Brake Fore & Aft |
| P114 | Plug, Mag. Brake - Lat. |
| P119 | Plug, Cabin Roof Disc. Hoist |
| P127 | Plug, Var. Mix Valve Disc. |
| P129 | Plug, Displacement, Roll & Pitch Gyro |
| P130 | Plug, Rate Switching Gyro |
| P131 | Plug, Attitude Ind. |
| P135 | Plug, Ice Interpreter |
| P136 | Plug, Ice Interpreter |
| P138 | Plug, Door Post - Aft-Out Val. Act. |
| P146 | Plug, Bleed Air Valve |
| P147 | Plug, Unshld-Tank Coupler Disc. |

## Table F-3. Equipment List — Helicopters Serial No. 67-17145 Through 67-19537 (Cont)

| ITEM NO. | DESCRIPTION | ITEM NO. | DESCRIPTION |
|---|---|---|---|
| P148 | Plug, Unshld-Tank Coupler Disc. | S27 | Switch, Hyd. Press. |
| P149 | Plug, Unshld-Tank Coupler Disc. | S28 | Switch , XMSN Oil Press. Warning |
| P151 | Plug, Shld-Tank Coupler Disc. | S29 | Switch, Eng. Oil Press. Warning |
| P152 | Plug, Shld-Tank Coupler Disc. | S31 | Switch, Limit (Ext. Pwr. Door) |
| P153 | Plug, Shld-Tank Coupler Disc. | S32 | Switch, Cargo Release (Plt) |
| P155 | Plug, Hi-Lo RPM Warning | S33 | Switch, Gov. (Auto-Emer) |
| P156 | Plug, Eng. Fuel Filter Bypass | S39 | Switch, Invtr. (Main-Spare) |
| P166 | Plug, Aft Outlet Valve | S36 | Switch, Cargo Release |
| P191 | Plug, Inverter Disc. - Main | S37 | Switch, RPM Gov. (Plt) |
| P192 | Plug, Inverter Disc. - Spare | S38 | Switch, Fuel (ON-OFF) |
| P194 | Plug, Engine Chip Detector | S40 | Switch, Battery (ON-OFF) |
| P267 | Plug, Battery Disc. Aft | S41 | Switch, Upper Float |
| P268 | Plug, Hoist to Ship | S42 | Switch, Lower Float |
| P269 | Plug, Cable Cut & Slip Limit | S44 | Switch, Fuel - Low Level |
| P270 | Plug, Hoist to Cont. Pendant | S45 | Switch, Fuel - Transfer L/H |
| P271 | Plug, Boom Act. | S46 | Switch, Fuel - Transfer R/H |
| P272 | Plug, Hoist to Winch Assy. | S47 | Switch, ICS Sw. Pilot's Cyclic Stick |
| P273 | Plug, Cont. Pendant | S48 | Switch, KS SW Copilot's Cyclic Stick |
| P274 | Plug, Boom Act. | S50 | Switch, Idle Stop Rel (Plt) |
| P275 | Plug, Winch Assy | S51 | Switch, RPM Gov. (Copilot) |
| P1017 | Plug, Ext. Fuel Disc. L/H | S58 | Switch, Fuel Diff. Press. |
| P1024 | Plug, Ext. Fuel Disc. R/H | S59 | Switch, Anti-Coll. Lt. |
| PS1 | Pilot 5v Power Supply (PS-274B) | S62 | Switch, Non-Ess Bus Cont. |
| PS2 | Copilot 5v Power Supply (PS-274B) | S63 | Switch, Ext. Fuel Jett. |
| R1 | Shunt-Ammeter (Stby Gen.) | S68 | Switch, Force Trim |
| R2 | Shunt-Ammeter (Main Gen.) | S70 | Switch, Starter-Gen. |
| R3 | Resistor-Windshield Wiper | S73 | Switch, Overheat Bleed Air |
| R4 | Rheostat, Plt Inst. Lt. Dim | S77 | Switch, Searchlight (ON-STOW) |
| R5 | Rheostat, Sec. Inst. Lt. Dim | S76 | Switch, Landing Lt. (ON-OFF) |
| R6 | Rheostat, Overhead Console | S77 | Switch, Starter (Copilot Coll) |
| R7 | Resistor, Nav. Lts. Dim | S78 | Switch, Cargo Rel (Copilot) |
| R8 | Rheostat, Ped. Lts. Dim | S79 | Switch, Fuel Ejector Flow Sw. L/H |
| R9 | Rheostat, Eng. Inst. Lts. Dim | S80 | Switch, Fuel Ejector Flow Sw. R/H |
| R10 | Rheostat, Copilot Inst. Lts. Dim | S81 | Switch, De-Ice (ON-OFF) |
| R11 | Resistor, Fire Det. Cont. | S83 | Switch, Bleed Air (ON-OFF) |
| R12 | Resistor, Spool Thermocouple | S85 | Switch, Aft Outlets (Htr) |
| R21 | Rheostat, Aft Dome Lts. | S87 | Switch, Aft-Outlet, Limit |
| R26 | Rheostat, Course Ind. Lt. Dim | S93 | Switch, Hi-Lo RPM |
| R27 | Resistor, AC Load Balancing | S94 | Switch, Fuel Filter Bypass |
| S1 | Switch, Aft Dome Lt. | S96 | Switch, Cable Cut |
| S2 | Switch, Rotary (DC VM Sel) | S97 | Switch, Cable Up Limit |
| S4 | Switch, XMSN Sump Insp. Lt. | S101 | Switch, Overload Sense |
| S5 | Switch, Fuel Qty Test | S111 | Switch, Fuel Trans. Pump |
| S6 | Switch, Starter (Plt Coll) | S112 | Switch, Pilot Hoist Cont. |
| S7 | Switch, Hyd Boost Cont. | S114 | Switch, Fire Control |
| S8 | Switch, Gen. (On-Off Reset) | S115 | Switch, Fire Control |
| S9 | Switch, Pitot Heater | S124 | Switch, Sel - W/Wiper |
| S10 | Switch, Force Trim (Copilot Sw.) | S134 | Switch, Chip Det. Sel. |
| S12 | Switch, Searchlight Cont. | S195 | Switch, Diff. Press. |
| S13 | Switch, Nav. Lts. (Flash Steady) | | |
| S14 | Switch, Nav. Lts. (Bright-Dim) | T1 | Transformer 115/28V |
| S.8 | Switch, Force Trim (Plt-Cyl) | TB1 | Term. Blk. Fwd. Inst. Panel |
| S20 | Switch, Test (Fire Det.) | TB2 | Term. Blk. Overhead Console R/H |
| S23 | Switch, Windshield Wiper | TB3 | Term. Blk. Overhead Console L/H |
| S25 | Switch, Landing Lt. (Ext-Retr) | TB4 | Term. Blk. Aft Fuel Cell |
| S26 | Switch, XMSN Oil Temp. | TB9 | Term. Blk. Top Ext. & Dome Lts. |

Table F-4. Equipment List — Helicopters Serial No. 68-15214 and Subsequent (Cont)

| ITEM NO. | DESCRIPTION | ITEM NO. | DESCRIPTION |
|---|---|---|---|
| TB12 | Term. Blk. Ped. Panel Edge Lts. | VR1 | Regulator - Voltage (Main Gen) |
| TB13 | Term. Blk. Inst. Panel Lts. | VR2 | Regulator - Voltage (Stby Gen) |
| TB14 | Term. Blk. Inst. Panel Sec. Lts. | | |
| TB15 | Term. Blk. Cockpit Lts. L/H | W1 | Cable Assembly - Fire Det. |
| TB16 | Term. Blk. Cockpit Lts. R/H | | |
| TB22 | Term. Blk. Copilot Headset | Z2 | Engine, Ignition Unit |
| TB23 | Term. Blk. Pilot Headset | Z3 | Flasher Unit - Nav. Lts. |
| TB25 | Term. Blk. Thermocouple Ind. | Z5 | XMSN Oil Temp. Bulb |
| TB26 | Term. Blk. DC Gnd. & Audio | Z6 | Engine Oil Temp. Bulb |
| TB27 | Term. Blk. Aft Thermo Lead | Z8 | Ice Interpreter |
| TB29 | Term. Blk. Inst. Ground | Z9 | Fire Det. Cont. |
| TB34 | Term. Blk. Aft Dome Lt. Panel | Z13 | Ice Detector |
| TB35 | Term. Blk. R/H Fuel Cell | Z16 | Fuel Qty. Tank Unit - Aft |
| TB36 | Term. Blk. Ext. Power Diode | Z17 | Displacement - Roll & Pitch Gyro |
| TB38 | Term. Blk. L/H Fuel Cell | Z18 | Rate Switching Gyro |
| TB39 | Term. Blk. Elect. Compt. Aft | Z22 | Fuel Qty. Tank Unit R/H Fwd. |
| TB45 | Term. Blk. Pitot Htr. - Disc. | Z24 | Hoist Control Box |
| TB60 | Term. Blk. Battery Voltage, Fwd. | Z25 | Hoist Cable Cutter |
| TB61 | Term. Blk. Battery Voltage, Aft | Z41 | Hoist Control Pendant |
| TB100 | Term. Blk. Pilot and Copilot 5v Power Supply | | |

Table F-4. Equipment List — Helicopters Serial No. 68-15214 and Subsequent

| ITEM NO. | DESCRIPTION |
|---|---|
| A1 | Panel, DC Power |
| A2 | Panel, AC Power |
| A3 | Panel, Engine |
| A4 | Panel, Caution |
| A6 | Panel, Inst. Lights |
| A7 | Panel, Ext. Lights |
| A8 | Panel, Hydraulic Control |
| A10 | Panel, Miscellaneous |
| A11 | Panel, Heating |
| A12 | Cargo Hook Assy |
| A13 | Panel, Resistor |
| A14 | Panel, AC Circuit Breaker |
| A15 | Panel, Overhead Console |
| A20 | Panel Assy, Aft Dome Lts |
| A21 | Panel, Dome Lt & Pitot Htr |
| A26 | Panel Assy, Ext. Fuel |
| B1 | Syncro XMTR, Torque Press |
| B2 | Syncro XMTR, XMSN Oil Press |
| B3 | Syncro, XMTR, Engine Oil Press |
| B4 | Syncro XMTR, Fuel Press |
| B5 | Motor, Fuel Shut-Off Valve |
| B6 | Motor, R/H Fuel Boost Pump |
| B7 | Motor, Windshield Wiper |
| B8 | Motor, R/H Aux. Fuel Pump |
| B12 | Motor, Gov RPM Actuator |
| B13 | Motor, L/H Aux. Fuel Pump |
| B31 | Motor, Copilot Windshield Wiper |
| B34 | Motor, Bleed Air Valve |
| BT2 | Battery |
| C1 | Capacitor, PF Corr. (MIL-C-25) |
| C7 | Capacitor, Filter, JN14 |
| CB1 | Circuit Breaker (5A) |
| CB2 | Circuit Breaker (10A) |
| CB3 | Circuit Breaker (15A) |
| CB4 | Circuit Breaker (20A) |
| CB5 | Circuit Breaker (25A) |
| CB6 | Circuit Breaker (1A) |
| CB7 | Circuit Breaker (35A) |
| CB8 | Circuit Breaker (2A) |
| CB11 | Circuit Breaker (7.5A) |
| CB12 | Circuit Breaker (50A) |
| CB13 | Circuit Breaker (1A) |
| CP1 | Coupler, Fuel Qty. Unshielded |
| CP2 | Coupler, Fuel Qty. Shielded |
| CR2 | Diode, Ext. Pwr. Relay |
| CR30 | Diode, Batt. Voltage Fwd Loc |
| CR31 | Diode, Batt. Voltage Aft Loc |
| D1 | Inverter, 250V.A. 3 Ph (Main) |
| D2 | Inverter, 250V.A. 3 Ph (Spare) |
| DS1 | Control Assy, RPM Warn. |
| E1 | Detector, Magnetic Chip |
| E2 | Detector, Magnetic Chip |
| E3 | Detector, Magnetic Chip |
| E4 | Detector, Magnetic Chip |
| G2 | Generator, 30 VDC (300A) |
| G3 | Generator, Tach (Gas Prod) |
| G4 | Generator, Tach (Pwr Turb) |
| G5 | Generator, Tach (Rotor) |
| G6 | Generator, Starter 28 V (200A) |
| HR1 | Heater, Pitot Tube |
| I1 | Indicator, Attitude (Copilot) |
| I2 | Indicator, Fuel Qty |
| I3 | Indicator, Torque - Pilot |
| I4 | Indicator, Oil Press (Eng) |
| I5 | Indicator, Oil Press (XMSN) |
| I6 | Indicator, Fuel Press |
| I7 | Indicator, Tach (Gas Prod) |
| I8 | Indicator, Tach-Dual |
| I9 | Light, Utility (Pilot) |
| I10 | Light, Dome |
| I11 | Light, Search |
| I12 | Light, Fire Warning |
| I13 | Light, Master Caution |
| I14 | Light, Instr, Secondary |
| I15 | Lamp, Instr & Edge Lights |
| I16 | Light, Landing |
| I17 | Light, Left Nav. |
| I18 | Light, Right Nav. |
| I19 | Light, Tail |
| I20 | Light, Top Fuselage |
| I21 | Indicator, XMSN Oil Temp |
| I22 | Indicator, Eng. Oil Temp. |
| I23 | Indicator, Turn & Slip (Plt) |
| I25 | Light, XMSN Sump Inspect |
| I26 | Light, Bottom Fuselage |
| I28 | Light, Utility (Copilot) |
| I31 | Indicator, Exh. Temp (Plt) |
| I34 | Standby Compass (Plt) |
| I40 | Light, Anti-Collision |
| I42 | Indicator, Attitude (Plt) |
| I44 | Light, Cargo Release Armed |
| I45 | Light, Hi-Lo RPM Warn. |
| I46 | Light, Utility - Crew Pos 1 |
| I47 | Light, Utility - Crew Pos 2 |
| I48 | Light, Utility - Crew Pos 3 |

**Table F-4. Equipment List — Helicopters Serial No. 68-15214 and Subsequent (Cont)**

| ITEM NO. | DESCRIPTION | ITEM NO. | DESCRIPTION |
|---|---|---|---|
| J2 | Recept. Pitot Tube Htr | | |
| J3 | Recept. Instr. Panel Disc. | | |
| J4 | Recept. Fuel Qty Ind. | | |
| J5 | Recept. Fuel Press Ind. | | |
| J6 | Recept. Copilot Att. Ind. | | |
| J7 | Recept. Eng. Oil Temp. Ind. | | |
| J8 | Recept. Eng. Oil Press. Ind. | | |
| J9 | Recept. Pilot Dual Tach Rotor | | |
| J10 | Recept. Pilot Dual Tach Pwr Turb. | | |
| J11 | Recept. XMSN Oil Temp. Ind. | | |
| J12 | Recept. XMSN Oil Press. Ind. | | |
| J13 | Recept. Pilot 5v Power Supply | | |
| J14 | Recept. Copilot 5v Power Supply | | |
| J15 | Recept. Pilot Torque Meter | | |

Table F-4. Equipment List — Helicopters Serial No. 68-15214 and Subsequent (Cont)

| ITEM NO. | DESCRIPTION | ITEM NO. | DESCRIPTION |
|---|---|---|---|
| J16 | Recept. Pilot Turn & Slip Ind. | J107 | Recept. Copilot Coll. Stick |
| J17 | Recept. Gas Prod. Tach. | J108 | Recept. Fuel Diff. Press. Sw. |
| J20 | Recept. Pilot Cyclic Stick | J109 | Recept. Ext. Power |
| J21 | Recept. Hydraulic Cont. Panel | J110 | Recept. Anti-Coll. Lt. Disc. |
| J22 | Recept. Copilot Cyclic Stick | J11 | Recept. Anti-Coll. Lt. |
| J23 | Recept. Engine Panel | J112 | Recept. Mag. Brake Anti-Torque |
| J24 | Recept. Caution Panel | J113 | Recept. Mag. Brake Fore & Aft |
| J25 | Recept. Pilot Coll. Stick | J114 | Recept. Mag. Brake Lat |
| J26 | Recept. Windshield Wiper | J115 | Recept. Test-Eng. Vibration Meter |
| J28 | Recept. Hyd. Bypass Solenoid | J127 | Recept. Var. Mix Valve Disc. |
| J29 | Recept. Hyd. Press. Warn. Sw. | J129 | Recept. Displacement-Roll & Pitch Gyro |
| J31 | Recept. Cargo Hook | J130 | Recept. Rate Switching Gyro |
| J32 | Recept, Cargo Slind Disc. | J131 | Recept. Attitude Ind. |
| J35 | Recept. Rotor, Tach. Gen. | J135 | Recept. Ice Interpreter |
| J36 | Recept, XMSN Oil Press. Sw. | J136 | Recept. Ice Interpreter |
| J37 | Recept. XMSN Oil Temp. Bulb | J138 | Recept. Door Post Outlet Valve Act |
| J38 | Recept. Copilot Windshield Wiper | J146 | Recept. Bleed Air Valve |
| J39 | Recept. XMSN Oil Press. XMTR | J147 | Recept. Internal Aux. Fuel Disc L/H |
| J41 | Recept. XMSN Disc. | J148 | Recept. Internal Aux. Fuel Disc R/H |
| J42 | Recept. Fuel Tank Disc R/H | J155 | Recept. Hi-Lo RPM Warn. |
| J43 | Recept. Compensator Fuel Tank Disc R/H | J156 | Recept. Eng. Fuel Filter Bypass Sw. |
| J44 | Recept. Fuel Tank Disc R/H | J166 | Recept. Aft, Outlet Valve |
| J53 | Recept. Bulkhead Feed-thru-aft Fuel Cell | J191 | Recept. Main Inverter Pwr. |
| J54 | Recept. Bulkhead Feed-thru-aft Fuel Cell | J192 | Recept. Spare Inverter Pwr. |
| J57 | Recept. Ext. Fuel Cont. Panel | J194 | Recept. Engine Chip Detector |
| J60 | Recept. Socket, Relay-Gen. Field | J267 | Recept. Battery Disc. Aft |
| J64 | Recept. Torque Press. XMTR | J1017 | Recept. Ext. Fuel Disc. L/H |
| J65 | Recept. Eng. Oil Press. XMTR | J1024 | Recept. Ext. Fuel Disc. R/H |
| J66 | Recept. Fuel Press. XMTR | | |
| J68 | Recept. Disc. Muff Heater | K1 | Relay, Ext. Pwr. |
| J71 | Recept. Eng. Fuel Valve | K2 | Relay, Non-Ess Bus |
| J72 | Recept. Eng. Oil Press. Sw. | K3 | Relay, Starter |
| J74 | Recept. Batt. Disc. Fwd. | K4 | Relay, Bus Cont. (Gen Fail) |
| J75 | Recept. Nav. Lts. Flasher | K5 | Relay, Reverse Curr. (Main) |
| J77 | Recept. Ice Detector | K6 | Relay, Overvoltage |
| J80 | Recept. Eng. Air Filter Press. Sw. | K7 | Relay, Gen. Field |
| J81 | Recept. Starter Deck | K8 | Relay, AC Failure |
| J84 | Recept. De-Icing Hot Air Valve | K9 | Relay, Battery |
| J85 | Recept. Eng. Oil Temp. Bulb | K10 | Relay, Fuel Transfer |
| J86 | Recept. Pwr. Turb. Tach. | K15 | Relay, Standby Gen. Field |
| J87 | Recept. Gas Turb. Tach. | K23 | Relay, Standby Gen. Rev. Curr. |
| J88 | Recept. Ignition Unit, Eng. | K24 | Relay, Cargo Hook Release |
| J89 | Recept. Primer Valve (Fuel Ign. Sol.) | K27 | Relay, Inverter |
| J90 | Recept. Fuel Cont. Sol. Valve | K35 | Relay, Main Invtr. Pwr. |
| J91 | Recept. Engine Disc. | K36 | Relay, Spare Invtr. Pwr. |
| J92 | Recept. Engine Fwd. Disc. | K37 | Relay, Lo-Fuel Caution Lt. |
| J93 | Recept. Fire Det. Fwd. Disc. | K28 | Relay, Lo-Fuel Caution Lt. |
| J94 | Recept. Fire Det. Element R/H | K46 | Relay, Overheat |
| J95 | Recept. Fire Det. Element L/H | K65 | Relay, Battery, Aft Loc |
| J96 | Recept. Fire Det. Element R/H | K66 | Relay, Battery Feeder |
| J97 | Recept. Fire Det. Element L/H | | |
| J98 | Recept. Tail Lt. Disc. | L1 | Solenoid, Primer (Ignition) |
| J99 | Recept. Thermocouple Disc. | L2 | Solenoid, Fuel Cont. Valve |
| J102 | Recept. Standby Compass (Plt) | L4 | Solenoid, Hyd. Bypass |
| J105 | Recept. Heated Blanket L/H | L6 | Solenoid, Hot-Air De-icer |
| J106 | Recept. Heated Blanket R/H | L7 | Solenoid, Idle Stop Rel. |

Table F-4. Equipment List — Helicopters Serial No. 68-15214 and Subsequent (Cont)

| ITEM NO. | DESCRIPTION | ITEM NO. | DESCRIPTION |
|---|---|---|---|
| L8 | Mag. Brake - Anti-Torque Force Trim | P64 | Plug, Torque Press. XMTR |
| L9 | Mag. Brake - F & A Force Trim | P65 | Plug, Eng. Oil Press. XMTR |
| L10 | Mag. Brake - Lat Force Trim | P66 | Plug, Fuel Press XMTR |
| L14 | Solenoid, Door Post Htr. Outlet Valve | P68 | Plug, Muff Heater Disc. |
| L15 | Solenoid, Aft Outlet Valve Act. | P71 | Plug, Fuel Valve Shut-Off |
| L21 | Solenoid, Var. Mix Valve | P72 | Plug, Eng. Oil Press Sw. |
| M1 | Meter, DC Load (Stand-by-gen.) | P74 | Plug, Battery Disc. Fwd. |
| M2 | Meter, DC Volts | P75 | Plug, Nav. Lts. Flasher |
| M3 | Meter, AC Volts | P77 | Plug, Ice Detector |
| M4 | Meter, DC Load (Main Gen) | P80 | Plug, Eng. Air Filter Press. Sw. |
| O2 | Guard - Gen. Sw. DC Pwr. Panel | P81 | Plug, Starter Deck |
| P2 | Plug, Pitot Tube Heater | P84 | Plug, De-Icing Hot Air Valve |
| P3 | Plug, Inst. Panel Conn. | P85 | Plug, Oil Temp. Bulb |
| P4 | Plug, Fuel Qty Ind. | P86 | Plug, Pwr. Turb. Tach. |
| P5 | Plug, Fuel Press Ind. | P87 | Plug, Gas Prod. Tach. |
| P6 | Plug, Copilot Att. Ind. | P88 | Plug, Ignition Unit-Eng. |
| P7 | Plug, Engine Oil Temp. Ind. | P89 | Plug, Ignition Sol. Valve |
| P8 | Plug, Engine Oil Press. Ind. | P90 | Plug, Fuel Cont. Sol Valve |
| P9 | Plug, Pilot Dual Tach. (Rotor) | P91 | Plug, Engine Disc. |
| P10 | Plug, Pilot Dual Tach. (Pwr. Turb.) | P92 | Plug, Engine Fwd. Disc. |
| P11 | Plug, XMSN Oil Temp. Ind. | P93 | Plug, Fire Det. Fwd. Disc. |
| P12 | Plug, XMSN Oil Press. Ind. | P94 | Plug, Fire Det. Element R/H |
| P13 | Plug. Pilot 5v Power Supply | P95 | Plug, Fire Det. Element L/H |
| P14 | Plug. Copilot 5v Power Supply | P96 | Plug, Fire Dec. Element R/H |
| P15 | Plug, Pilot Torque Meter | P97 | Plug, Fire Det. Element L/H |
| P16 | Plug, Pilot Turn & Slip Ind. | P98 | Plug, Tail Lt. Disc. |
| P17 | Plug, Gas Prod. Turb. Tach. | P99A | Plug, Thermocouple Disc - Eng. |
| P20 | Plug, Pilot's Cyclic Stick | P99B | Plug, Thermocouple Disc - Eng. |
| P21 | Plug, Hyd. Cont. Panel | P102 | Plug, Standby Compass (Pilot) |
| P22 | Plug, Copilot Cyclic Stick | P107 | Plug, Copilot Coll. Stick |
| P23 | Plug, Engine Panel | P108 | Plug, Fuel Diff. Press. Sw. |
| P24 | Plug, Caution Panel | P110 | Plug, Anti-Coll. Lt. Disc. |
| P25 | Plug, Pilot Coll. Stick | P111 | Plug, Anti-Coll. Lt. |
| P26 | Plug, Windshield Wiper | P112 | Plug, Mag. Brake Anti-Torque |
| P28 | Plug, Hyd. Bypass Sol. Valve | P113 | Plug, Mag. Brake F & A |
| P29 | Plug, Hyd. Press. Warn. Sw. | P114 | Plug, Mag. Brake - Lat. |
| P31 | Plug, Cargo Hook | P127 | Plug, Var. Mix Valve Disc. |
| P32 | Plug, Cargo Hook Disc. | P129 | Plug, Displacement, Roll & Pitch Gyro |
| P35 | Plug, Rotor Tach. Gen. | P130 | Plug, Rate Switching Gyro |
| P36 | Plug, XMSN Oil Press. Sw. | P131 | Plug, Attitude Ind. |
| P37 | Plug, XMSN Oil Temp. Bulb | P135 | Plug, Ice Interpreter |
| P38 | Plug, Copilot Windshield Wiper | P136 | Plug, Ice Interpreter |
| P39 | Plug, XMSN Oil Press. XMTR | P138 | Plug, Door Post-Aft Outlet Valve Act. |
| P41 | Plug, XMSN Disc. | P146 | Plug, Bleed Air Valve |
| P42 | Plug,Shielded Tank Unit Disc(R/H Tank) | P147 | Plug, Unshielded Tank Coupler Disc. |
| P43 | Plug, Monitor Tank Unit Disc(R/H Tank) | P148 | Plug, Unshielded Tank Coupler Disc. |
| P44 | Plug,Unshielded Tank Unit Disc(R/H Tank) | P149 | Plug, Unshielded Tank Coupler Disc. |
| P46 | Plug, Fuel Tank Disc. R/H Cell | P151 | Plug, Shielded Tank Coupler Disc. |
| P47 | Plug, Fuel Tank Disc R/H Cell | P152 | Plug, Shielded Tank Coupler Disc. |
| P48 | Plug, Fuel Tank Disc R/H Cell | P153 | Plug, Shielded Tank Coupler Disc. |
| P53 | Plug, Unshielded Tank Unit-Aft Cell | P155 | Plug, Hi-Lo RPM Warning |
| P54 | Plug, Shielded Tank Unit-Aft Cell | P156 | Plug, Eng. Fuel Filter Bypass |
| P55 | Plug, Fuel Tank Disc - Aft Cell | P166 | Plug, Aft Outlet Valve |
| P56 | Plug, Fuel Tank Disc - Aft Cell | P191 | Plug, Inverter Disc. - Main |
| P57 | Plug, Ext. Fuel Cont. Panel | P192 | Plug, Inverter Disc. - Spare |
| P60 | Plug, Field Relay Generator | P194 | Plug, Eng. Chip Detector |

**Table F-4. Equipment List — Helicopters Serial No. 68-15214 and Subsequent (Cont)**

| ITEM NO. | DESCRIPTION |
|---|---|
| P267 | Plug, Battery Disc. Aft |
| P1017 | Plug, Ext. Fuel Disc. L/H |
| P1027 | Plug, Ext. Fuel Disc. R/H |
| PS1 | Pilot 5v Power Supply |
| PS2 | Copilot 5v Power Supply |
| R1 | Shunt, Ammeter (Stby Gen) |
| R2 | Shunt, Ammeter (Main Gen) |
| R3 | Resistor, Windshield Wiper |
| R4 | Rheostat, Pilot Inst. Lt. Dim |
| R5 | Rheostat, Sec. Instrument Lt. Dim |
| R6 | Rheostat, Overhead Console |
| R7 | Resistor, Nav. Lts. Dim |
| R8 | Rheostat, Ped. Lts. Dim |
| R9 | Rheostat, Eng. Inst. Lts. Dim |
| R10 | Rheostat, Copilot Inst. Lts. Dim |
| R11 | Resistor, Fire Det. Cont. |
| R12 | Resistor, Speel Thermocouple |
| R21 | Rheostat, Aft Dome Lts. |
| R26 | Rheostat, Course Ind. Lt. Dim |
| R27 | Resistor, AC Load Balancing |
| S1 | Switch, Aft Dome Lt. |
| S2 | Switch, Rotary (DC VM Sel) |
| S4 | Switch, XMSN Sump Insp. Lt. |
| S5 | Switch, Fuel Qty. Test |
| S6 | Switch, Starter (Plt Coll.) |
| S7 | Switch, Hyd. Boost Cont. |
| S8 | Switch, Gen. (On-Off Reset) |
| S9 | Switch, Pitot Heater |
| S10 | Switch, Force Trim (Copilot Cyc.) |
| S11 | Switch, Rotary (AC VM Sel) |
| S12 | Switch, Searchlight Cont. |
| S13 | Switch, Nav. Lts. (Flash Steady) |
| S14 | Switch, Nav. Lts. (Bright-Dim) |
| S18 | Switch, Force Trim (Plt-Cyc) |
| S20 | Switch, Test (Fire Det) |
| S23 | Switch, Windshield Wiper |
| S25 | Switch, Landing (lt. (Ext-Retr) |
| S26 | Switch, XMSN Oil Temp. |
| S27 | Switch, Hyd. Press. |
| S28 | Switch, XMSN Oil Press Warn. |
| S29 | Switch, Eng. Oil Press. Warn. |
| S31 | Switch, Limit (Ext. Pwr. Door) |
| S32 | Switch, Cargo Release (Plt) |
| S33 | Switch, Gov. (Auto-Emer) |
| S36 | Switch, Cargo Release |
| S37 | Switch, RPM Gov. (Plt) |
| S38 | Switch, Fuel (ON-OFF) |
| S39 | Switch, Invtr (Main-Spare) |
| S40 | Switch, Battery (ON-OFF) |
| S41 | Switch, Upper Float |
| S42 | Switch, Lower Float |
| S44 | Switch, Fuel-Low Level |
| S45 | Switch, Fuel-Transfer L/H |
| S46 | Switch, Fuel-Transfer R/H |
| S50 | Switch, Idle Stop Rel (Plt) |
| S51 | Switch, RPM Gov (Copilot) |
| S58 | Switch, Fuel Diff Press |
| S59 | Switch, Anti-Coll. Lt. |
| S62 | Switch, Non-Ess Bus Cont |
| S63 | Switch, Ext. Fuel Jett |
| S68 | Switch, Force Trim |
| S70 | Switch, Starter-Gen. |
| S73 | Switch, Overheat Bleed Air |
| S75 | Switch, Searchlight (ON-STOW) |
| S76 | Switch, Landing Lt. (ON-OFF) |
| S78 | Switch, Cargo Rel. (Copilot) |
| S79 | Switch, Fuel Ejector Flow Sw. L/H |
| S80 | Switch, Fuel Ejector Flow Sw. R/H |
| S81 | Switch, De-ice (ON-OFF) |
| S83 | Switch, Bleed Air (ON-OFF) |
| S85 | Switch, Aft Outlets (Htr) |
| S87 | Switch, Aft-Outlet Limit |
| S93 | Switch, Hi-Lo RPM |
| S94 | Switch, Fuel Filter Bypass |
| S111 | Switch, Fuel Trans. Pump |
| S112 | Switch, Pilot Hoist Cont. |
| S114 | Switch, Fire Control |
| S115 | Switch, Fire Control |
| S124 | Switch, Sel-Windshield Wiper |
| S134 | Switch, Chip Det. Sel. |
| S195 | Switch, Diff. Press. |
| T1 | Transformer 115/28V |
| TB1 | Term. Blk. Fwd. Inst. Panel |
| TB2 | Term. Blk. Overhead Console R/H |
| TB3 | Term. Blk. Overhead Console L/H |
| TB4 | Term. Blk. Aft Fuel Cell |
| TB9 | Term. Blk. Top Ext. & Dome Lts. |
| TB12 | Term. Blk. Ped. Panel Edge Lts. |
| TB13 | Term. Blk. Inst. Panel Lts. |
| TB14 | Term. Blk. Inst. Panel Sec. Lts. |
| TB15 | Term. Blk. Cockpit Lts. L/H |
| TB16 | Term. Blk. Cockpit Lts. R/H |
| TB25 | Term. Blk. Thermocouple Ind. |
| TB26 | Term. Blk. DC Gnd. & Audio |
| TB27 | Term. Blk. Aft Thermo Lead |
| TB29 | Term. Blk. Inst. Gnd. |
| TB34 | Term. Blk. Aft Dome Lt. Panel |
| TB35 | Term. Blk. R/H Fuel Cell |
| TB36 | Term. Blk. Ext. Pwr. Diode |
| TB38 | Term. Blk. L/H Fuel Cell |
| TB39 | Term. Blk. Elect. Compt. Aft |
| TB45 | Term. Blk. Pitot Htr. - Disc. |
| TB60 | Term. Blk. Battery Voltage, Fwd. |
| TB61 | Term. Blk. Battery Voltage, Aft |
| TB62 | Term. Blk. Crew Pos 1 |
| TB63 | Term. Blk. Crew Pos 2 |
| TB64 | Term. Blk. Crew Pos 3 |
| TB100 | Term. Blk. Pilot and Copilot 5v Power Supply |

**Table F-4. Equipment List — Helicopters Serial No. 68-15214 and Subsequent (Cont)**

| ITEM NO. | DESCRIPTION | ITEM NO. | DESCRIPTION |
|---|---|---|---|
| VR1 | Regulator - Voltage (Main Gen) | | |
| VR2 | Regulator - Voltage (Stby Gen) | | |
| W1 | Cable Assy. Fire Det. | | |
| Z2 | Eng. Ignition Unit | | |

**Table F-4. Equipment List — Helicopters Serial No. 68-15214 and Subsequent (Cont)**

| ITEM NO. | DESCRIPTION | ITEM NO. | DESCRIPTION |
|---|---|---|---|
| Z3 | Flasher Unit - Nav. Lts. | Z13 | Ice Detector |
| Z5 | XMSN Oil Temp. Bulb | Z16 | Fuel Qty. Tank Unit - Aft |
| Z6 | Eng. Oil Temp. Bulb | Z17 | Displacement-Roll & Pitch Gyro |
| Z8 | Ice Interpreter | Z18 | Rate Switch Gyro |
| Z9 | Fire Det. Cont. | Z22 | Fuel Qty. Tank Unit R/H Fwd. |

### Table F-5. Connector Replacement Chart

| WIRE NO. | RECEPTACLE | PIN | PLUG | WIRE NO. |
|---|---|---|---|---|
| D9A20 | J3 | A | P3 | D9B20 |
| X11A20 | J3 | B | P3 | X11B20 |
| X12A20 | J3 | C | P3 | X12B20 |
| D13B22 | J3 | D | P3 | D13A22 |
| D12A22 | J3 | E | P3 | D12B22 |
| D35A20 | J3 | F | P3 | D35B20 |
| D34B20 | J3 | G | P3 | D34C20 |
| L36A20 | J3 | H | P3 | L36B20 |
| L20F20 | J3 | J | P3 | L20E20 |
| W109A20 | J3 | R | P3 | W109B20 |
| E32A20 | J3 | S | P3 | E32B20 |
| W2B20 | J3 | T | P3 | W2A20 |
| W4B20 | J3 | U | P3 | W4C20 |
| M3F20 | J3 | V | P3 | M3G20 |
| E7D18N | J3 | W | P3 | E7E18N |
| M1C20 | J3 | X | P3 | M1D20 |
| W12A20 | J3 | Y | P3 | W12B20 |
| W6A20 | J3 | Z | P3 | W6B20 |
| L20A20 | J3 | a | P3 | L20B20 |
| L19A20 | J3 | b | P3 | L19B20 |
| L18A20 | J3 | c | P3 | L18B20 |
| C12A20 | J20 | A | P20 | P/O Equipment |
| M4B20 | J20 | C | P20 | P/O Equipment |
| M3E20 | J20 | E | P20 | P/O Equipment |
|  | J20 | G | P20 | P/O Equipment |
|  | J20 | H | P20 | P/O Equipment |
| M29A20 △1 | J20 | L | P20 | P/O Equipment |
| M27A20 △1 | J20 | M | P20 | P/O Equipment |
| M30A20 △1 | J20 | N | P20 | P/O Equipment |
| M22A20 △1 | J20 | P | P20 | P/O Equipment |
| M28A20 △1 | J20 | R | P20 | P/O Equipment |
| RZ1714B20 | J20 | S | P20 | P/O Equipment |
| RZ1853B20N | J20 | T | P20 | P/O Equipment |
| RZ1715C20 | J20 | U | P20 | P/O Equipment |
| C1C20 | J20 | V | P20 | P/O Equipment |
| M43C20 △1 | J21 | A | P21 | △1 M25A20 |
|  | J21 | B | P21 |  |
|  | J21 | C | P21 |  |
| L21C20 | J21 | D | P21 | L21B20 |
| C8B20 | J21 | E | P21 | C8A20 |
| C9A20 | J21 | F | P21 | C9B20 |
| L22E20N | J21 | G | P21 | L22D20N |
| W18B20 | J21 | H | P21 | W18A20 |
| W17A20 | J21 | I | P21 | W17B20 |
| M44A20 △1 | J21 | J | P21 | △1 M26A20 |
| W19C20 | J21 | K | P21 | W19B20 |
| C12B20 | J21 | L | P21 | C12A20 |
| C21A20 | J21 | M | P21 | C21B20 |
|  | J21 | N | P21 |  |
| M4C20 | J22 | A | P22 | P/O Equipment |
|  | J22 | B | P22 | P/O Equipment |
|  | J22 | C | P22 | P/O Equipment |
|  | J22 | D | P22 | P/O Equipment |
| C21B20 | J22 | E | P22 | P/O Equipment |

## Table F-5. Connector Replacement Chart (Cont)

| WIRE NO. | RECEPTABLE | PIN | PLUG | WIRE NO. |
|---|---|---|---|---|
| C13A20 | J22 | F | P22 | P/O Equipment |
|  | J22 | G | P22 | P/O Equipment |
|  | J22 | H | P22 | P/O Equipment |
| M3C20 | J22 | J | P22 | P/O Equipment |
|  | J22 | K | P22 | P/O Equipment |
| RZ1752C20 | J22 | L | P22 | P/O Equipment |
| RZ1854B20N | J22 | M | P22 | P/O Equipment |
| RZ1751B20 | J22 | N | P22 | P/O Equipment |
|  | J22 | U | P22 | P/O Equipment |
| L22A20N | J23 | A | P23 | L22B20N |
| L21H20 | J23 | B | P23 | L21G20 |
| Q52A20 | J23 | C | P23 | Q52B20 |
| W102B20 | J23 | D | P23 | W102A20 |
| W103B20 | J23 | E | P23 | W103A20 |
| Q53D20 | J23 | F | P23 | Q53C20 |
| J3H20 △2 | J23 | H | P23 | △2 J3G20 |
| J4A20 △2 | J23 | J | P23 | △2 J4B20 |
|  | J23 | K | P23 |  |
| Q12D20 | J23 | L | P23 | Q12E20 |
|  | J23 | M | P23 |  |
|  | J23 | N | P23 |  |
|  | J23 | P | P23 |  |
|  | J23 | R | P23 |  |
|  | J23 | S | P23 |  |
|  | J23 | T | P23 |  |
|  | J23 | U | P23 |  |
|  | J23 | V | P23 |  |
|  | J23 | W | P23 |  |
| Q11A20 | J23 | X | P23 | Q11B20 |
| Q10B20 | J23 | Y | P23 | Q10A20 |
| Q12A20 | J23 | Z | P23 | Q12B20 |
| E37D20 | J23 | a | P23 | E37C20 |
| E46A20 | J23 | b | P23 | E46B20 |
| Q30A20 | J23 | c | P23 | Q30B20 |
| Q29B20 | J23 | d | P23 | Q29A20 |
| Q50A20 | J23 | e | P23 | Q50B20 |
| E44A20 | J23 | f | P23 | E44B20 |
| Q51A20 | J23 | g | P23 | Q51B20 |
| J2A20 | J23 | h | P23 | J2B20 |
| J1B20 | J23 | i | P23 | J1A20 |
| Q4A20 | J23 | j | P23 | Q4B20 |
| Q3B20 | J23 | k | P23 | Q3A20 |
| H61A16 | J23 | m | P23 | H61B16 |
| Q5A20 | J23 | n | P23 | Q5B20 |
| Q1B20 | J23 | p | P23 | Q1A20 |
| Q2A20 | J23 | q | P23 | Q2B20 |
| H60C16 | J23 | r | P23 | H60B16 |
| J2D20 J2B20 △3 | J25 | A | P25 | J2E20 |
| L43B20 | J25 | B | P25 | L43A20 |
| L42A20 | J25 | C | P25 | L42B20 |
| L30C20 | J25 | D | P25 | L30B20 |
| J3B20 | J25 | E | P25 | J3A20 |
| K2A20 | J25 | F | P25 | K2B20 |
| L34B20 | J25 | G | P25 | L34A20 |
| Q25B20 | J25 | H | P25 | Q25A20 |

Table F-5. Connector Replacement Chart (Cont)

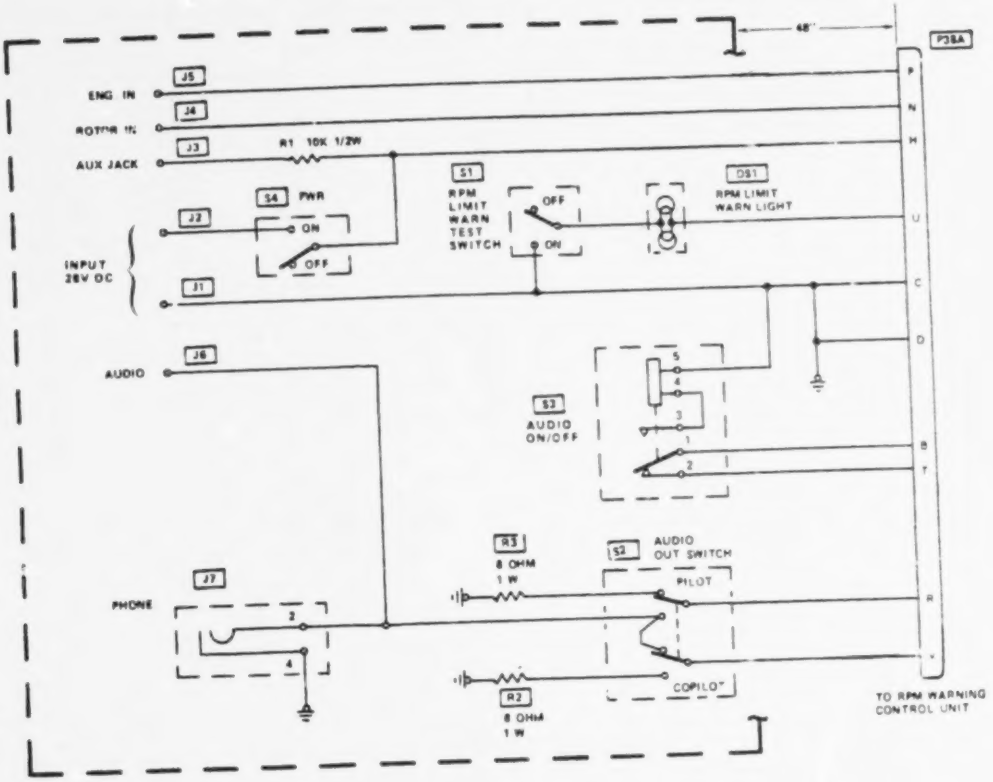
| WIRE NO. | RECEPTABLE | PIN | PLUG | WIRE NO. |
|---|---|---|---|---|
| L51B20 | J25 | J | P25 | L51A20 |
| L20T20 | J25 | K | P25 | L20U20 |
|  | J25 | L | P25 |  |
|  | J25 | M | P25 |  |
|  | J25 | N | P25 |  |
|  | J25 | P | P25 |  |
|  | J25 | R | P25 |  |
| J3G20 △2 | P25 | S | P25 | J3F20 |
| Q24A20 | J25 | T | P25 | Q24B20 |
| L53A20N | J25 | U | P25 | L53B20 |
| Q26B20 | J25 | V | P25 | Q26A20 |
| Q22B20 | J25 | W | P25 | Q22A20 |
| Q23B20 | J25 | X | P25 | Q23A20 |
| L33B20 | J25 | Y | P25 | L33A20 |
| K3B20 | J25 | Z | P25 | K3A20 |
| L44B20 | J25 | a | P25 | L44A20 |
| L31B20 | J25 | b | P25 | L31A20 |
| L38B20 | J25 | c | P25 | P38A20 |
| D16B20 | J41 | A | P41 | D16A20 |
| D17A20 | J41 | B | P41 | D17B20 |
|  | J41 | C | P41 |  |
|  | J41 | D | P41 |  |
|  | J41 | E | P41 |  |
|  | J41 | F | P41 |  |
|  | J41 | G | P41 |  |
|  | J41 | H | P41 |  |
|  | J41 | J | P41 |  |
| W19B20 | J41 | L | P41 | W19A20 |
|  | J41 | M | P41 |  |
| D5A20 | J41 | N | P41 | D5B20 |
| D6B20 | J41 | P | P41 | D6C20 |
| D1B20 | J41 | R | P41 | D1A20 |
| D22A20 | J41 | S | P41 | D22B20 |
| D2B20 | J41 | T | P41 | D2A20 |
| D25C20N | J41 | U | P41 | D25B20N |
| D23A20 | J41 | V | P41 | D23B20 |
| P/O Equipment | J91 | B | P91 |  |
| P/O Equipment | J91 | C | P91 | Q28A16 |
| P/O Equipment | J91 | D | P91 | H61C16 |
| P/O Equipment | J91 | E | P91 | E1A18 |
| P/O Equipment | J91 | F | P91 | E2A18 |
| P/O Equipment | J91 | G | P91 | E21A18 |
| P/O Equipment | J91 | H | P91 | E22A18 |
| P/O Equipment | J91 | J | P91 | J3E18 |
| P/O Equipment | J91 | K | P91 | J4C18 |
| P/O Equipment | J91 | L | P91 | Q12C18 |
| P/O Equipment | J91 | M | P91 | Q11C18 |
| P/O Equipment | J91 | N | P91 | E8A18 |
| P/O Equipment | J91 | P | P91 | E9B18 |
| P/O Equipment | J91 | R | P91 |  |
| P/O Equipment | J91 | U | P91 |  |
| P/O Equipment | J91 | V | P91 |  |
| P/O Equipment | J91 | d | J91 |  |
| H56A20 △4 | J92 | A | P92 | △4 H56A20 |
| Q46B20 | J92 | B | P92 | Q46C18 |

**Table F-5. Connector Replacement Chart (Cont)**

| WIRE NO. | RECEPTACLE | PIN | PLUG | WIRE NO. |
|---|---|---|---|---|
| P35A16 | J92 | C | P92 | P35B16 |
| Q45B20 | J92 | D | P92 | Q45C18 |
| Q47A20N | J92 | E | P92 | Q17B18 |
| W16B20 | J92 | F | P92 | W16A18 |
| Q15A20 | J92 | G | P92 | Q15B18 |
| H61B16 | J92 | H | P92 | H61C16 |
| Q67B20N | J92 | J | P92 | Q67A18 |
| Q66A20 | J92 | K | P92 | Q66B18 |
| E1B20 | J92 | L | P92 | E1A18 |
| E2B20 | J92 | M | P92 | E2A18 |
| E21B20 | J92 | N | P92 | E21A18 |
| E22B20 | J92 | P | P92 | E22A18 |
| J3D20 | J92 | R | P92 | J3E18 |
| J4B20 | J92 | S | P92 | J4C18 |
| Q12B20 | J92 | T | P92 | Q12C18 |
| Q28B16N | J92 | U | P92 | Q28A16 |
| Q11B20 | J92 | V | P92 | Q11C18 |
| E8A20 | J92 | W | P92 | E8A18 |
| E9A20 | J92 | X | P92 | E9B18 |
| E29B20N | J92 | Z | P92 | E29A18 |
| Q17A20 | J92 | a | P92 | Q17B18 |
| E15A20 | P92 | b | P92 | E15B18 |
| H55A20 △4 | P92 | c | P92 | △4 H55B18 |
| H54A20 △4 | P92 | d | P92 | △4 H54B18 |
| E5B20 | J92 | e | P92 | E5A18 |
| E33C-CHROM | J92 | f | P92 | E33B-CHROM |
| Q18A20N | J92 | g | P92 | Q18B18 |
| E14A20 | J92 | h | P92 | E14B18 |
| E31B20N | J92 | j | P92 | E31A18 |
| E6A20 | J92 | k | P92 | E6B18 |
| E43C-ALML | J92 | m | P92 | E34B-ALML |
| Q31A18N | J92 | n | P92 | Q31B18 |
| H57A20N | J92 | p | P92 | H57B18 |
| H44A20 H52B20 △4 | J92 | r | P92 | △4 H52C18 H44B18 |
| H45A20 H53A20 △4 | J92 | s | P92 | △4 H53B18 H45B18 |
| Q46B20 | J107 | A | P107 | Q46A20 |
| Q45B20 | J107 | B | P107 | Q45A20 |
| Q24D20 | J107 | C | P107 | Q24E20 |
| Q22B20 | J107 | D | P107 | Q22C20 |
| K2C20 △5 | J107 | E | P107 | △5 K2D20 |
| J2D20 △5 | J107 | F | P107 | △5 J2C20 |
| J2B20 | J107 |  | P107 |  |
| Q23B20 | J107 | G | P107 | Q23C20 |
| J3B20 △5 | J107 | I | P107 | △5 J3C20 |
| J3D20 △5 | J107 |  | P107 |  |
| K3B20 △5 | J107 | J | P107 | △5 K3C20 |
| K3D20 | J107 |  | P107 |  |

NOTES

△1 EFF When Rescue Hoist Provisions are Installed.
△2 EFF 65-9565 thru 66-16033
△3 EFF 68-15214 thru 70-15932
△4 EFF 65-9565 thru 66-16867
△5 EFF 65-9565 thru 67-19537


48"
P38A
J5
ENG IN
J4
ROTOR IN
J3
AUX JACK
R1 10K 1/2W
S4 PWR
ON
OFF
J2
INPUT 28V DC
J1
S1
RPM LIMIT WARN TEST SWITCH
OFF
ON
DS1
RPM LIMIT WARN LIGHT
J6
AUDIO
S3
AUDIO ON/OFF
1
2
3
4
5
R3
8 OHM 1 W
S2
AUDIO OUT SWITCH
PILOT
COPILOT
J7
PHONE
2
4
R2
8 OHM 1 W
P
N
H
U
C
D
B
T
R
X
TO RPM WARNING CONTROL UNIT

| ID CODE | NOMENCLATURE | PART NO |
|---|---|---|
| DS1 | LIGHT, RPM LIMIT WARN | 205 074 025 1 |
| J1, J2, J3<br>J4, J5, J6 | JACK, BANANA | STANDARD |
| J7 | JACK, PHONE | 092 A/U |
| P38A | CONNECTOR, ENGINE RPM LIMIT WARNING | MS3126F 14 19S |
| R1 | RESISTOR, 10K OHMS, 1/2 W | (5% TOL ) |
| R2, R3 | RESISTOR 8 OHMS, 1 W | (5% TOL ) |
| S1 | SWITCH, RPM LIMIT WARN TEST | MS27787 30 |
| S2 | SWITCH, AUDIO OUT | MS24659 23G |
| S3 | SWITCH, AUDIO ON OFF | 5 ET1 S<br>(MICRO SWITCH) |
| S4 | SWITCH PWR | MS24659 23G |
| – | CHASSIS | |

NOTES

1. TEST SET MAY BE LOCALLY FABRICATED STANDARD PARTS ARE USED AS INDICATED. ALL PARTS MAY BE MOUNTED IN A STANDARD CHASSIS OR EQUIVALENT

2. COMPONENT MOUNTING ARRANGEMENT IS NOT CRITICAL

3. ALL WIRING TO BE 22 GAUGE STANDARD UNLESS OTHERWISE SPECIFIED.

205074 2001

Figure F-6. Rpm limit warning test set schematic—BHT Model 205-074-033-103

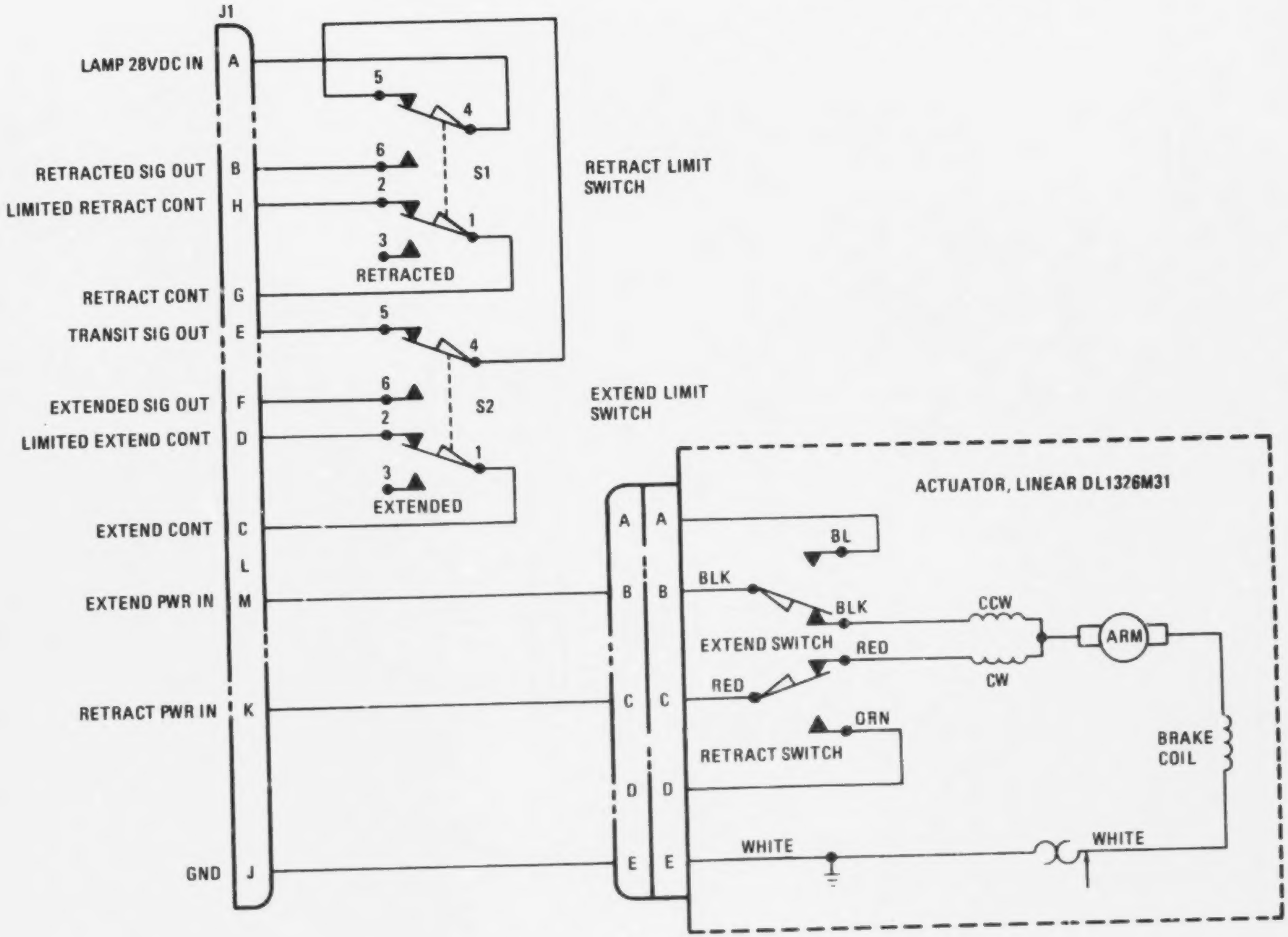

J1
LAMP 28VDC IN
A
RETRACTED SIG OUT
B
LIMITED RETRACT CONT
H
RETRACT CONT
G
TRANSIT SIG OUT
E
EXTENDED SIG OUT
F
LIMITED EXTEND CONT
D
EXTEND CONT
C
L
EXTEND PWR IN
M
RETRACT PWR IN
K
GND
J
5
4
6
2
1
3
RETRACTED
S1
RETRACT LIMIT SWITCH
5
4
6
2
1
3
EXTENDED
S2
EXTEND LIMIT SWITCH
A
B
C
D
E
A
B
C
D
E
ACTUATOR, LINEAR DL1326M31
BL
BLK
BLK
EXTEND SWITCH
RED
RED
ORN
RETRACT SWITCH
CCW
CW
ARM
BRAKE COIL
WHITE
WHITE

Figure F-7. Mission Antennas OE-201/ARQ-33 and OE-202/ARQ-33 Schematic Diagram, EH-1H

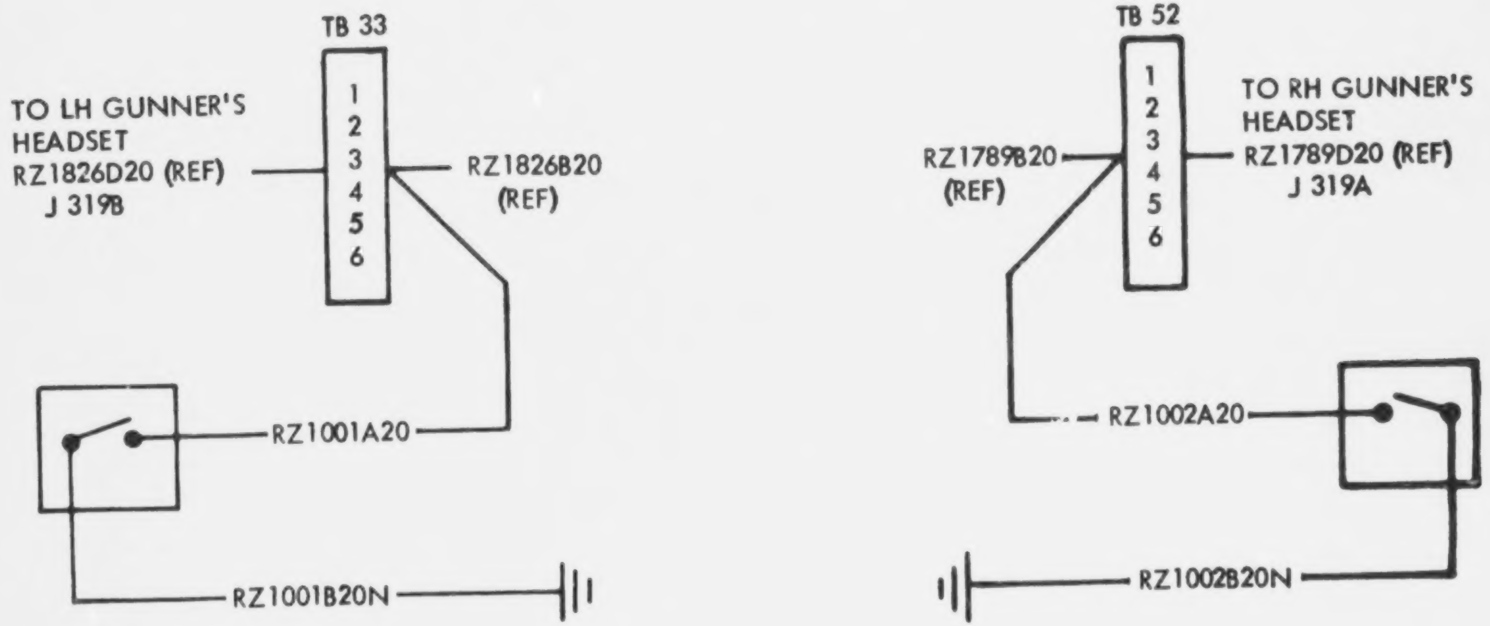
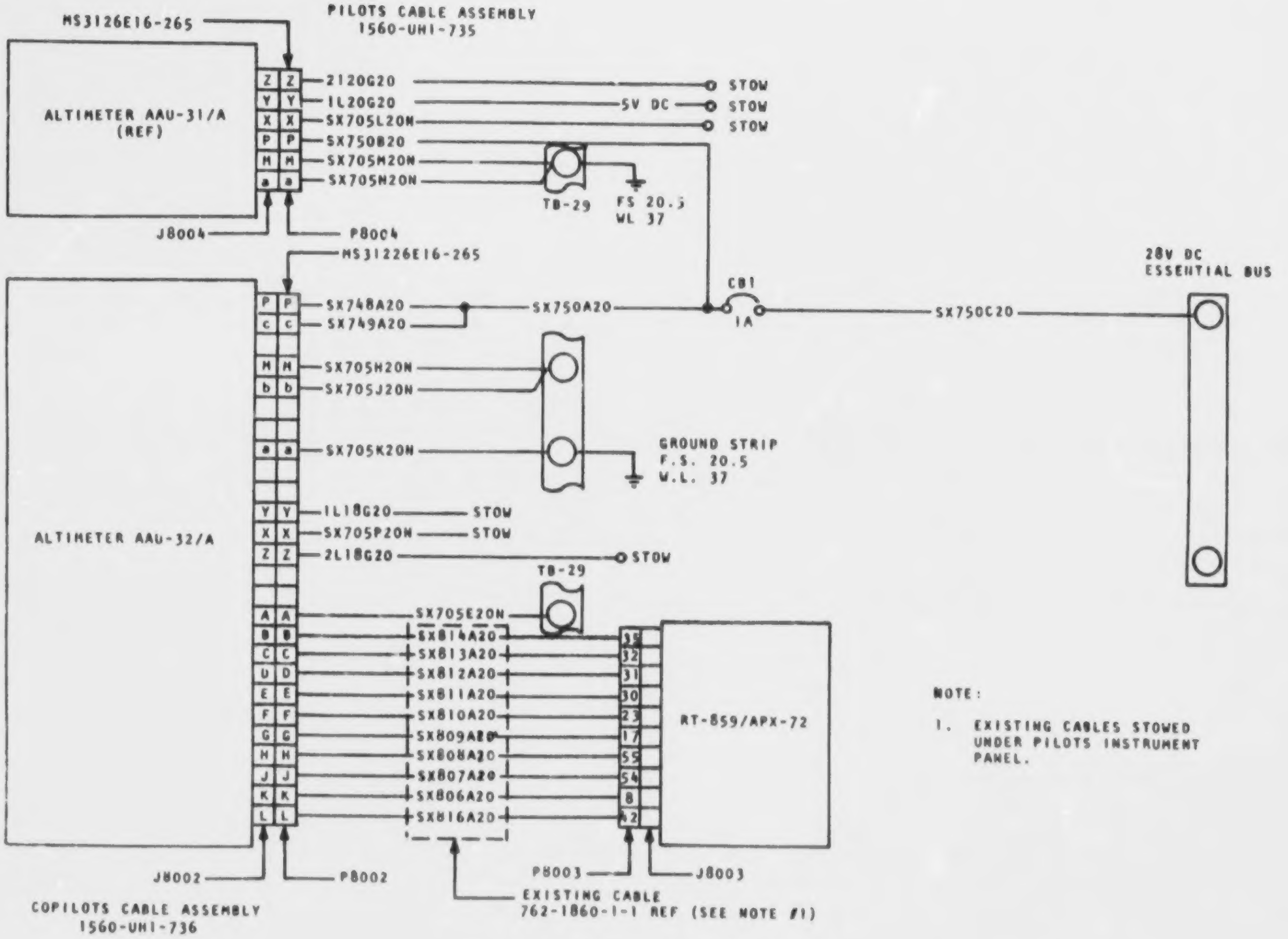

TB 33
1
2
3
4
5
6
TO LH GUNNER'S
HEADSET
RZ1826D20 (REF)
J 319B
RZ1826B20
(REF)
RZ1001A20
RZ1001B20N
TB 52
1
2
3
4
5
6
TO RH GUNNER'S
HEADSET
RZ1789D20 (REF)
J 319A
RZ1789B20
(REF)
RZ1002A20
RZ1002B20N

Figure F-9. Door gunner's foot mike switch


MS3126E16-265
PILOTS CABLE ASSEMBLY 1560-UH1-735
ALTIMETER AAU-31/A (REF)
2120G20
1L20G20
SX705L20N
SX750B20
SX705M20N
SX705N20N
STOW
5V DC
STOW
STOW
TB-29
FS 20.5 WL 37
J8004
P8004
MS31226E16-265
ALTIMETER AAU-32/A
SX748A20
SX749A20
SX750A20
CB1
1A
SX750C20
28V DC ESSENTIAL BUS
SX705H20N
SX705J20N
SX705K20N
GROUND STRIP F.S. 20.5 W.L. 37
1L18G20
STOW
SX705P20N
STOW
2L18G20
STOW
TB-29
SX705E20N
SX814A20
SX813A20
SX812A20
SX811A20
SX810A20
SX809A20
SX808A20
SX807A20
SX806A20
SX816A20
RT-859/APX-72
J8002
P8002
P8003
J8003
COPILOTS CABLE ASSEMBLY 1560-UH1-736
EXISTING CABLE 762-1860-1-1 REF (SEE NOTE #1)

NOTE:

1. EXISTING CABLES STOWED UNDER PILOTS INSTRUMENT PANEL.

Figure F-10. Altimeter AAU-31/A and AAU-32/A and Transponder AN/APX-72 interconnecting wiring diagram.

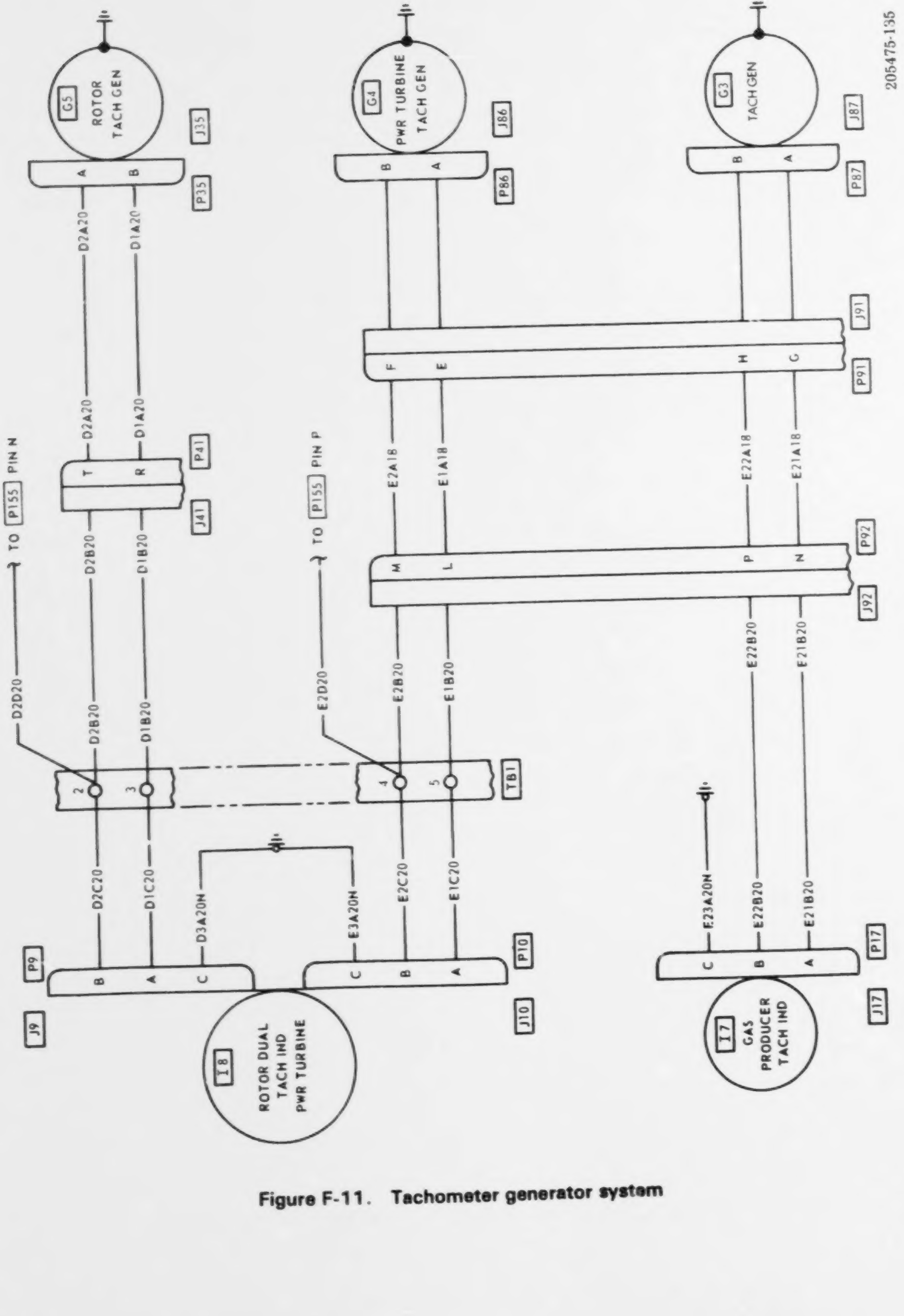

G5
ROTOR TACH GEN
J35
P35
A
B
D2A20
D1A20
G4
PWR TURBINE TACH GEN
J86
P86
B
A
G3
TACH GEN
J87
P87
B
A
205475-135
J91
P91
F
E
H
G
D2A20
D1A20
T
R
P41
J41
TO P155 PIN N
D2B20
D1B20
E2A18
E1A18
E22A18
E21A18
TO P155 PIN P
P92
J92
M
L
P
N
E2B20
E1B20
E22B20
E21B20
D2D20
E2D20
D2B20
D1B20
2
3
4
5
TB1
D2C20
D1C20
D3A20N
E3A20N
E2C20
E1C20
E23A20N
E22B20
E21B20
P9
B
A
C
C
B
A
P10
C
B
A
P17
J9
J10
J17
I8
ROTOR DUAL TACH IND PWR TURBINE
I7
GAS PRODUCER TACH IND

Figure F-11. Tachometer generator system

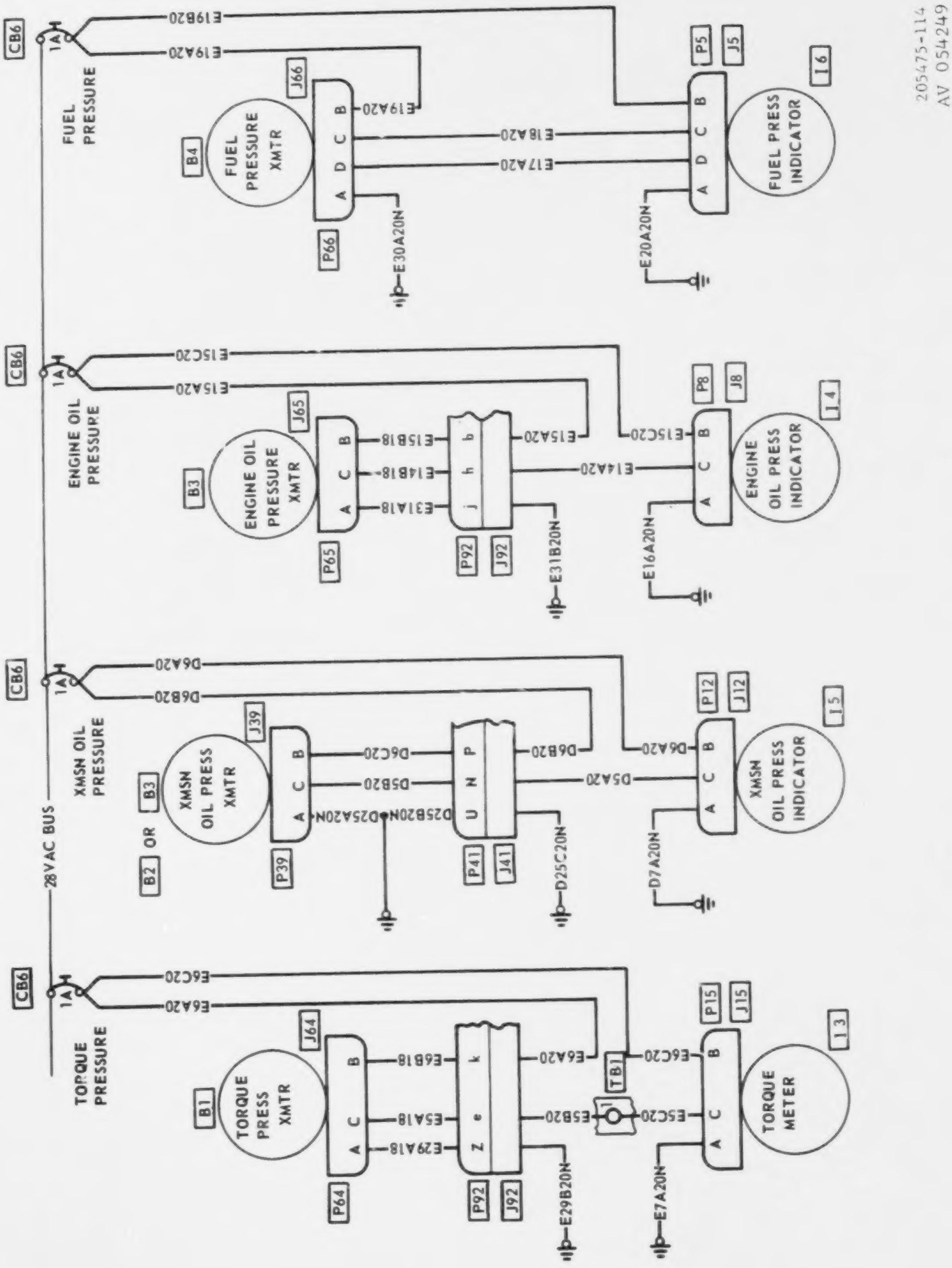

CB6
1A
FUEL PRESSURE
E19B20
E19A20
B4
FUEL PRESSURE XMTR
J66
P66
A D C B
E30A20N
E18A20
E17A20
P5
J5
FUEL PRESS INDICATOR
I6
E20A20N
205475-114
AV 054249
CB6
1A
ENGINE OIL PRESSURE
E15C20
E15A20
B3
ENGINE OIL PRESSURE XMTR
J65
P65
A C B
E15B18
E14B18
E31A18
j h b
P92
J92
E31B20N
E14A20
E15C20
P8
J8
ENGINE OIL PRESS INDICATOR
I4
E16A20N
CB6
1A
XMSN OIL PRESSURE
D6A20
D6B20
28VAC BUS
B2 OR B3
XMSN OIL PRESS XMTR
J39
P39
A C B
D6C20
D5B20
D25A20N
D25B20N
U N P
P41
J41
D25C20N
D5A20
P12
J12
XMSN OIL PRESS INDICATOR
I5
D7A20N
CB6
1A
TORQUE PRESSURE
E6C20
E6A20
B1
TORQUE PRESS XMTR
J64
P64
A C B
E6B18
E5A18
E29A18
Z e k
P92
J92
E29B20N
TB1
E5B20
E5C20
P15
J15
TORQUE METER
I3
E7A20N

Figure F-12. AC pressure indicator system

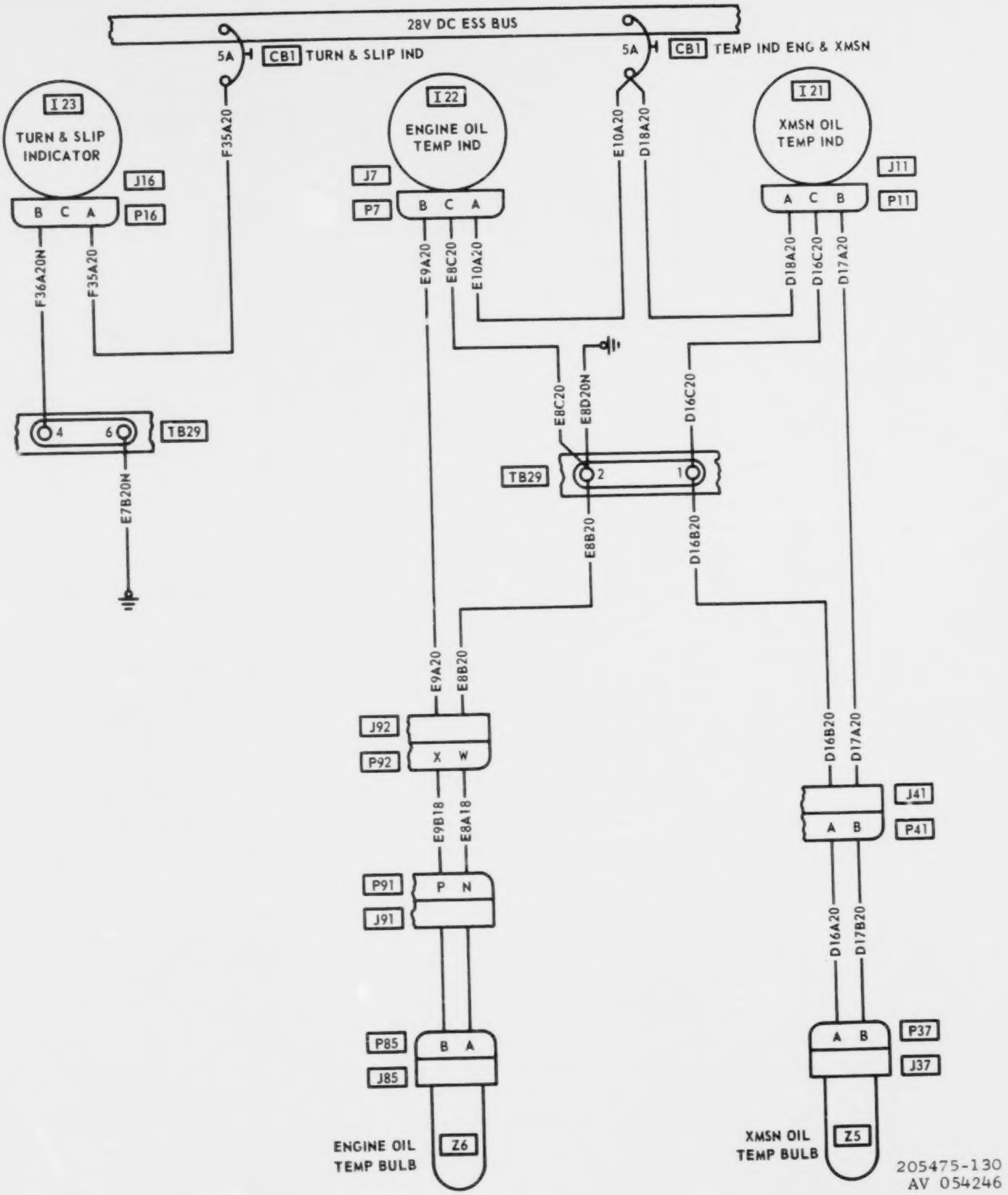

28V DC ESS BUS
5A
CB1 TURN & SLIP IND
5A
CB1 TEMP IND ENG & XMSN
I 23
TURN & SLIP INDICATOR
J16
P16
B C A
F35A20
I 22
ENGINE OIL TEMP IND
J7
P7
B C A
E10A20
D18A20
I 21
XMSN OIL TEMP IND
J11
P11
A C B
F36A20N
F35A20
E9A20
E8C20
E10A20
D18A20
D16C20
D17A20
E8C20
E8D20N
D16C20
TB29
4
6
E7B20N
TB29
2
1
E8B20
D16B20
E9A20
E8B20
J92
P92
X W
E9B18
E8A18
P91
P N
J91
P85
B A
J85
ENGINE OIL TEMP BULB
Z6
D16B20
D17A20
J41
P41
A B
D16A20
D17B20
P37
A B
J37
XMSN OIL TEMP BULB
Z5
205475-130
AV 054246

Figure F-13. Temperature bulb, turn and slip indicator system

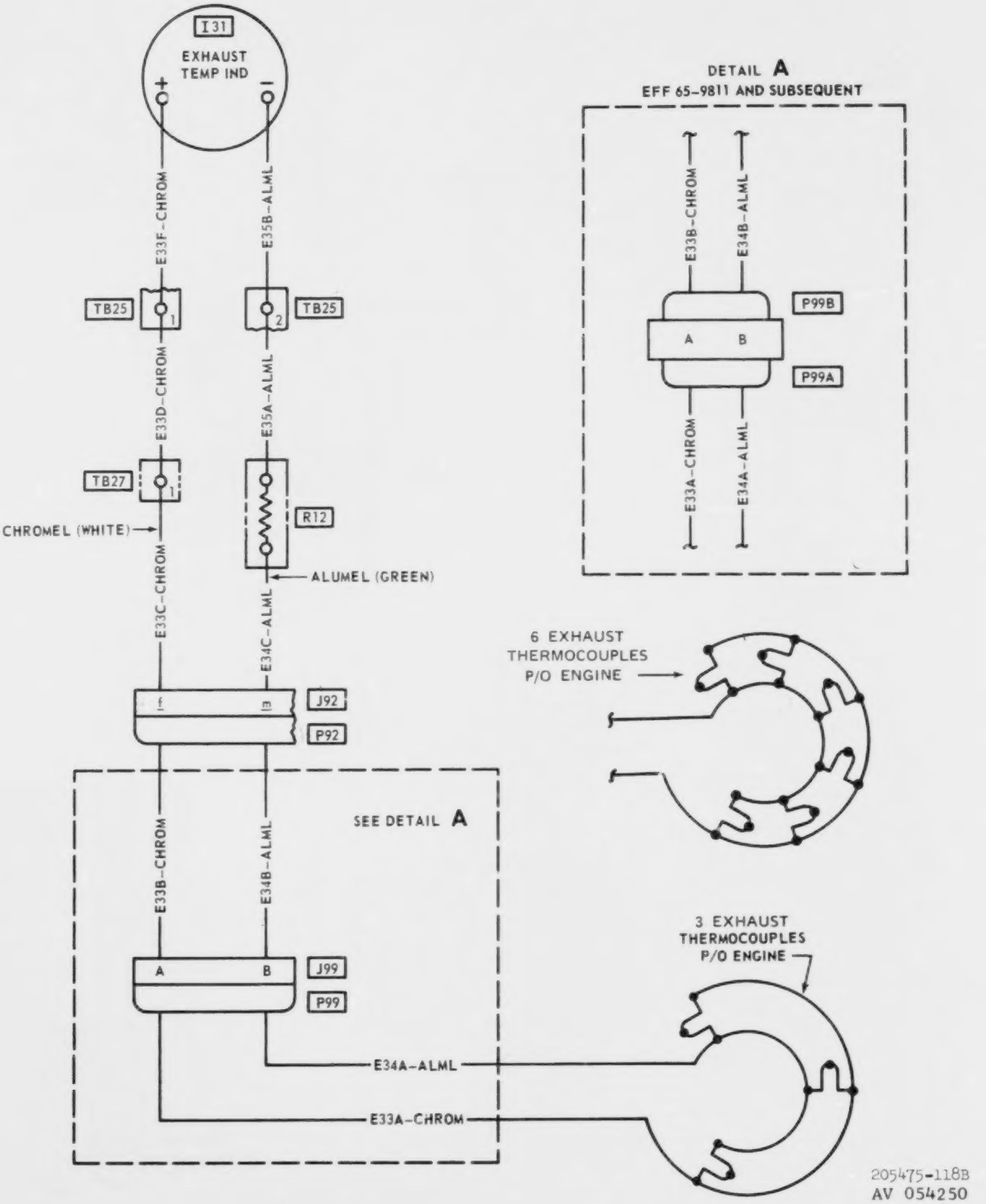
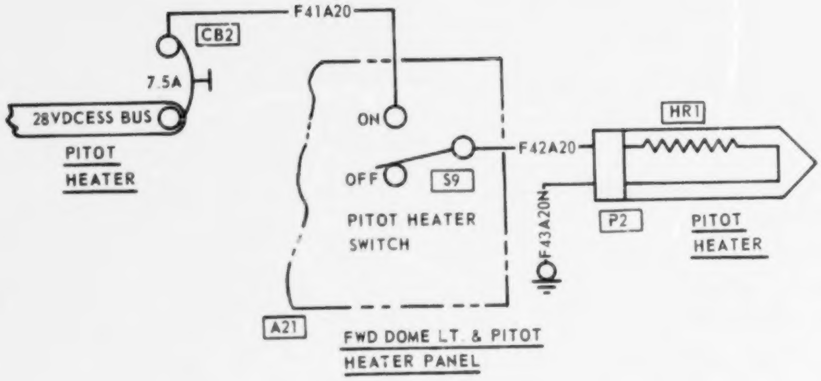
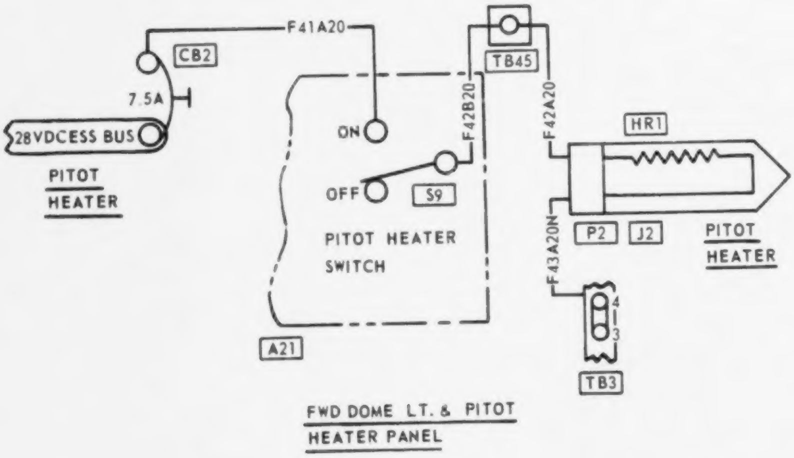

I31
EXHAUST TEMP IND
+
−
E33F-CHROM
E35B-ALML
TB25
1
TB25
2
E33D-CHROM
E35A-ALML
TB27
1
R12
CHROMEL (WHITE)
ALUMEL (GREEN)
E33C-CHROM
E34C-ALML
f
m
J92
P92
SEE DETAIL A
E33B-CHROM
E34B-ALML
A
B
J99
P99
E34A-ALML
E33A-CHROM
DETAIL A
EFF 65-9811 AND SUBSEQUENT
E33B-CHROM
E34B-ALML
P99B
A
B
P99A
E33A-CHROM
E34A-ALML
6 EXHAUST THERMOCOUPLES P/O ENGINE
3 EXHAUST THERMOCOUPLES P/O ENGINE
205475-118B
AV 054250

Figure F-14. Exhaust temperature indicator system


F41A20
CB2
7.5A
28VDCESS BUS
PITOT
HEATER
ON
OFF
S9
F42A20
HR1
F43A20N
P2
PITOT
HEATER
PITOT HEATER
SWITCH
A21
FWD DOME LT. & PITOT
HEATER PANEL

EFF 65-9565 THRU 65-12895


F41A20
CB2
7.5A
28VDCESS BUS
PITOT
HEATER
TB45
F42B20
F42A20
ON
OFF
S9
HR1
F43A20N
P2
J2
PITOT
HEATER
PITOT HEATER
SWITCH
4
3
A21
TB3
FWD DOME LT. & PITOT
HEATER PANEL

EFF 66-746 AND SUBSEQUENT

205475-116A
AV 054245

Figure F-15. Pitot heater system

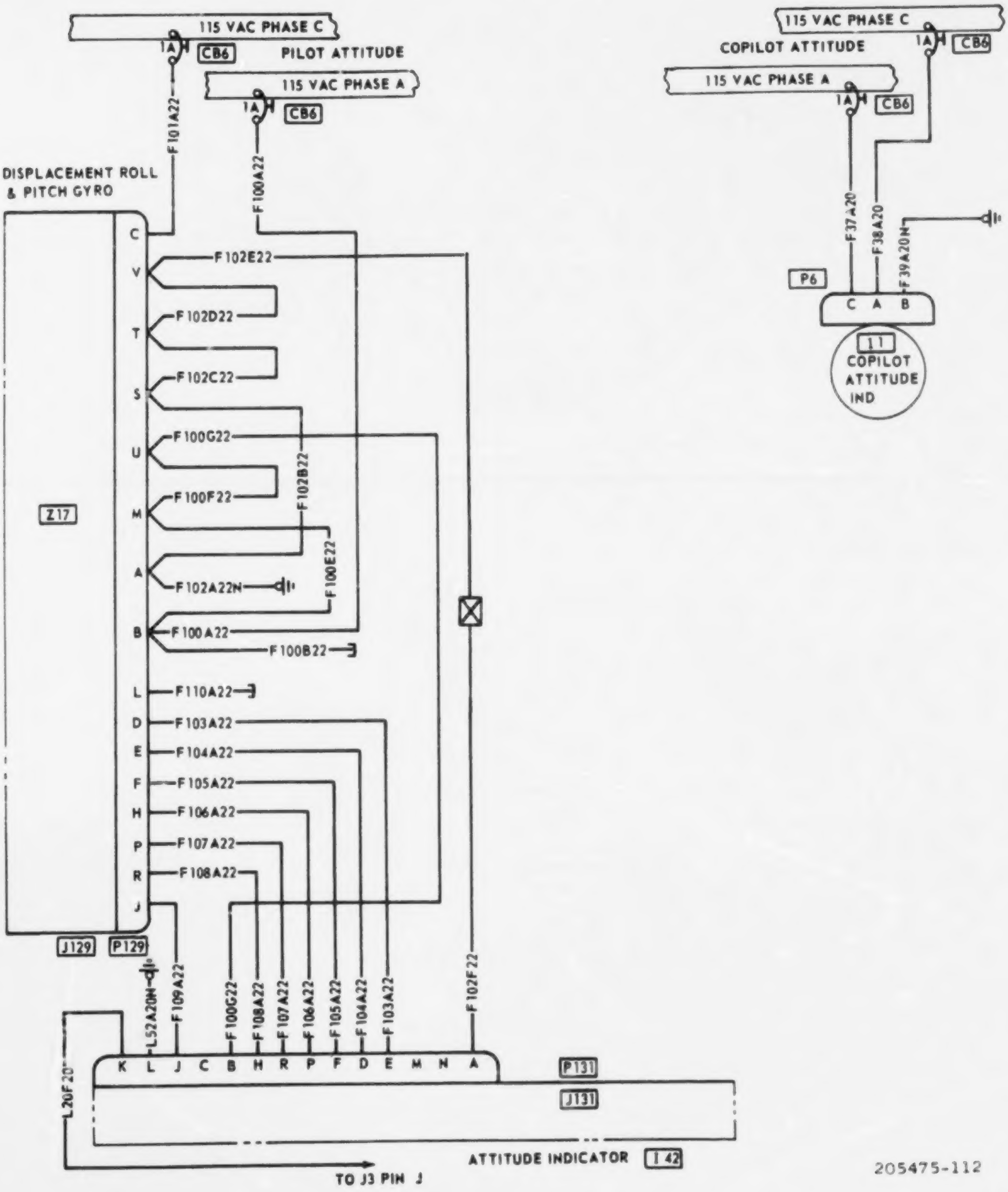

115 VAC PHASE C
1A
CB6
PILOT ATTITUDE
115 VAC PHASE A
1A
CB6
F101A22
F100A22
DISPLACEMENT ROLL & PITCH GYRO
Z17
C
V
T
S
U
M
A
B
L
D
E
F
H
P
R
J
F102E22
F102D22
F102C22
F100G22
F100F22
F102B22
F100E22
F102A22N
F100A22
F100B22
F110A22
F103A22
F104A22
F105A22
F106A22
F107A22
F108A22
J129
P129
L52A20H
F109A22
F100G22
F108A22
F107A22
F106A22
F105A22
F104A22
F103A22
F102F22
L20F20
K L J C B H R P F D E M N A
P131
J131
ATTITUDE INDICATOR
I42
TO J3 PIN J
115 VAC PHASE C
COPILOT ATTITUDE
1A
CB6
115 VAC PHASE A
1A
CB6
F37A20
F38A20
F39A20N
P6
C A B
I1
COPILOT ATTITUDE IND
205475-112

Figure F-16. Attitude indicator system

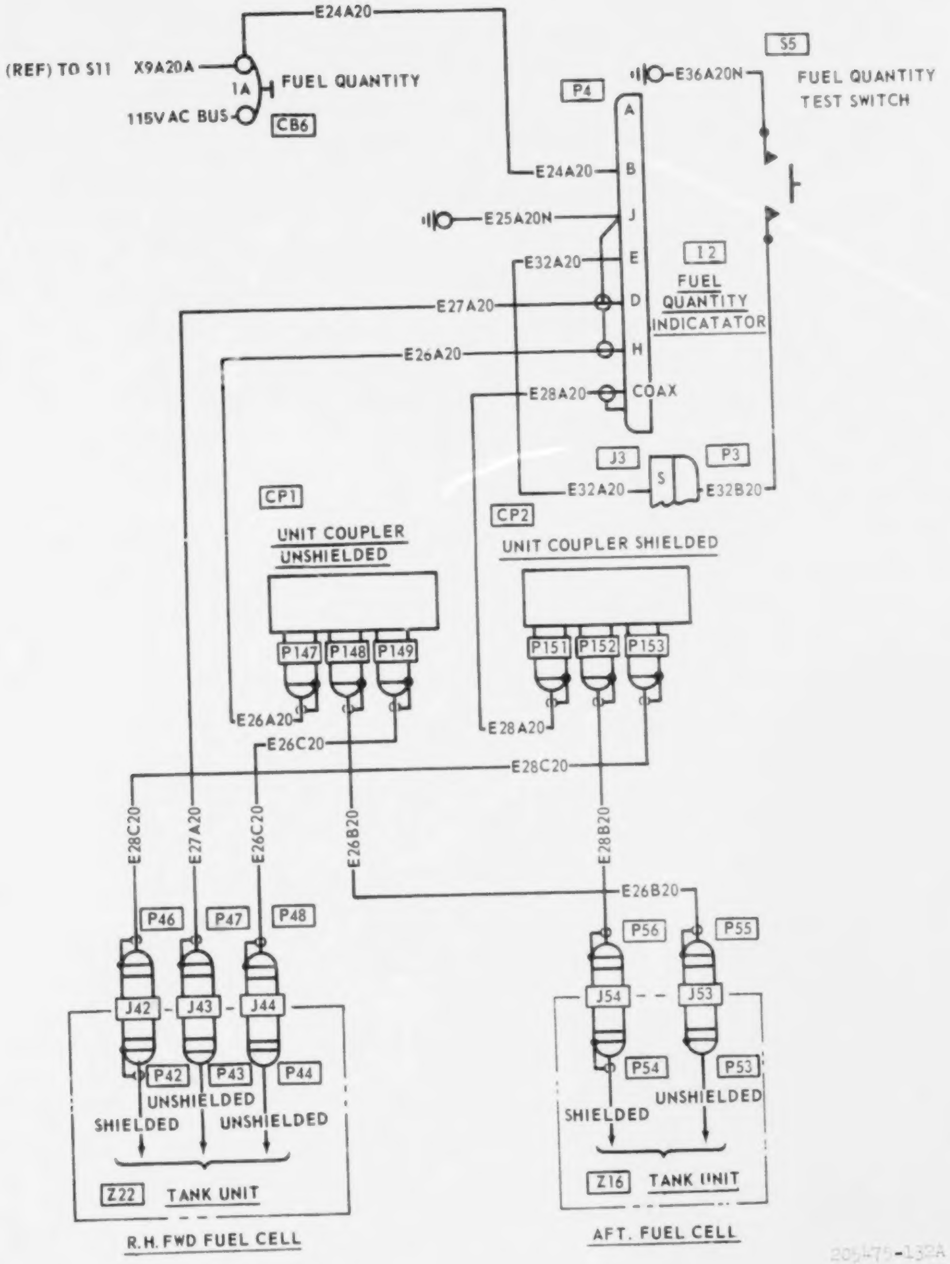

E24A20
(REF) TO S11
X9A20A
1A
FUEL QUANTITY
115VAC BUS
CB6
S5
E36A20N
FUEL QUANTITY
TEST SWITCH
P4
A
B
E24A20
E25A20N
J
E32A20
E
I2
FUEL
QUANTITY
INDICATATOR
E27A20
D
E26A20
H
E28A20
COAX
J3
P3
S
E32A20
E32B20
CP1
UNIT COUPLER
UNSHIELDED
CP2
UNIT COUPLER SHIELDED
P147
P148
P149
P151
P152
P153
E26A20
E28A20
E26C20
E28C20
E28C20
E27A20
E26C20
E26B20
E28B20
E26B20
P46
P47
P48
P56
P55
J42
J43
J44
J54
J53
P42
P43
P44
P54
P53
UNSHIELDED
SHIELDED
UNSHIELDED
SHIELDED
UNSHIELDED
Z22
TANK UNIT
Z16
TANK UNIT
R.H. FWD FUEL CELL
AFT. FUEL CELL
205475-132A
AV 054251

Figure F-17. Fuel quantity system

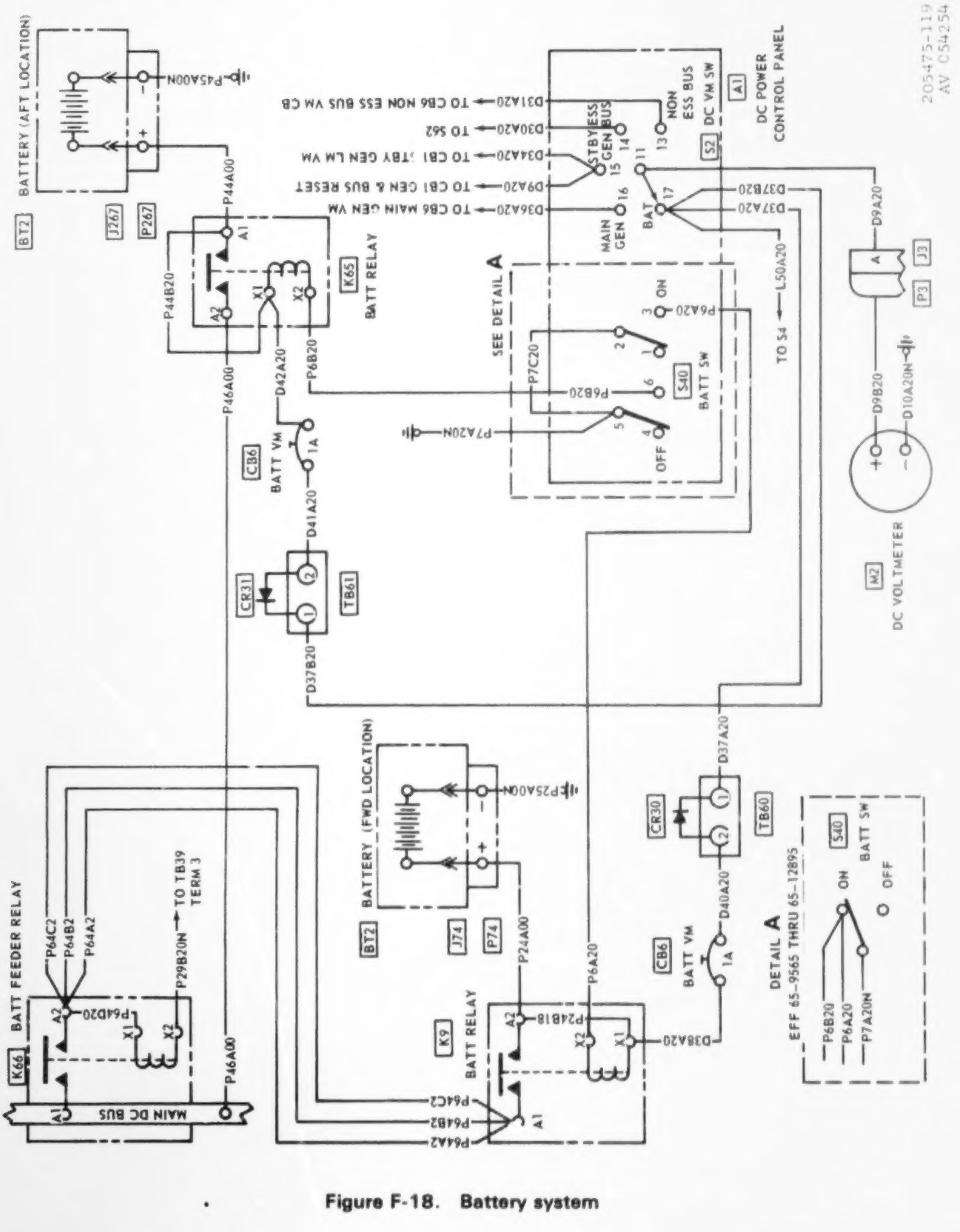
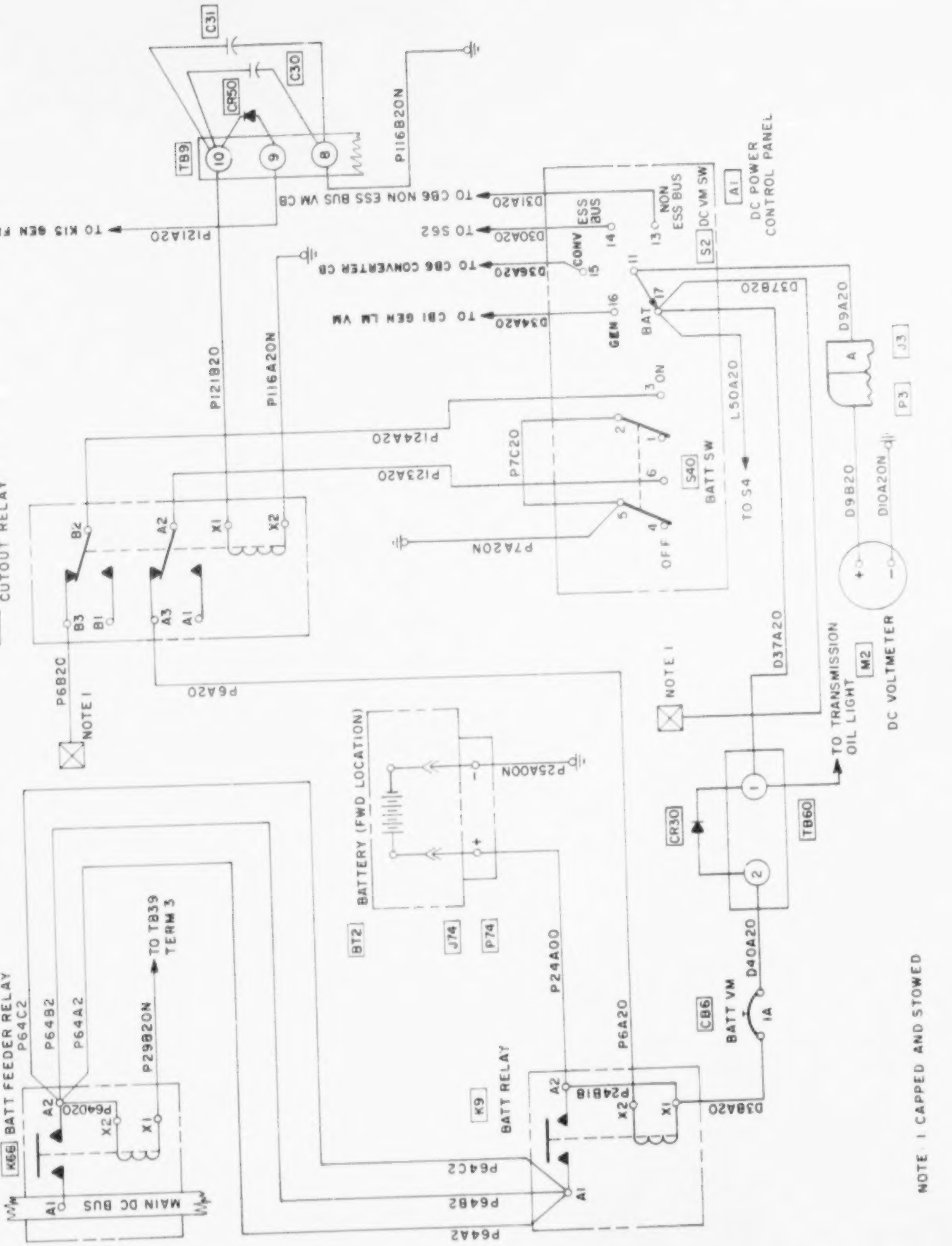

BT2
BATTERY (AFT LOCATION)
J267
P267
P45A00N
P44A00
P44B20
K65
BATT RELAY
A1
A2
X1
X2
P46A00
D42A20
P6B20
CB6
BATT VM
1A
D41A20
CR31
TB61
D37B20
SEE DETAIL A
P7C20
P6B20
P7A20N
S40
BATT SW
OFF
ON
P6A20
D36A20 TO CB6 MAIN GEN VM
D9A20 TO CB1 GEN & BUS RESET
D34A20 TO CB1 STBY GEN LM VM
D30A20 TO S62
D31A20 TO CB6 NON ESS BUS VM CB
MAIN GEN
BAT
STBY GEN
ESS BUS
NON ESS BUS
S2
DC VM SW
A1
DC POWER CONTROL PANEL
D37B20
D37A20
L50A20
TO S4
D9A20
P3
J3
A
D9B20
D10A20N
M2
DC VOLTMETER
205475-119
AV C54254
K66
BATT FEEDER RELAY
P64C2
P64B2
P64A2
P64D20
P29B20N
TO TB39 TERM 3
MAIN DC BUS
P46A00
BT2
BATTERY (FWD LOCATION)
J74
P74
P25A00N
P24A00
P6A20
K9
BATT RELAY
P24B18
D38A20
D40A20
CB6
BATT VM
1A
CR30
TB60
D37A20
DETAIL A
EFF 65-9565 THRU 65-12895
S40
BATT SW
ON
OFF
P6B20
P6A20
P7A20N

Figure F-18. Battery system


K66 BATT FEEDER RELAY
MAIN DC BUS
A1
A2
X1
X2
P64D20
P64C2
P64B2
P64A2
P29B20N
TO TB39 TERM 3
BT2 BATTERY (FWD LOCATION)
J74
P74
P25A00N
P24A00
K9 BATT RELAY
P24B18
D38A20
CB6 BATT VM 1A
D40A20
P6A20
CR30
TB60
TO TRANSMISSION OIL LIGHT
NOTE 1
D37A20
D37B20
M2 DC VOLTMETER
D9B20
D10A20N
P3
J3
D9A20
K71 BATTERY CHARGING CUTOUT RELAY
B1
B2
B3
A3
P6B20
P7A20N
S40 BATT SW
OFF
ON
P7C20
P123A20
P124A20
TO S4
L50A20
S2 DC VM SW
BAT
GEN
CONV
ESS BUS
NON ESS BUS
A1 DC POWER CONTROL PANEL
D34A20
TO CB1 GEN LM VM
D36A20
TO CB6 CONVERTER CB
D30A20
TO S62
D31A20
TO CB6 NON ESS BUS VM CB
P121B20
P116A20N
P121A20
TO K13 GEN FIELD CONT RLY
TB9
CR50
C30
C31
P116B20N

NOTE 1 CAPPED AND STOWED

**EB** X Figure F-18.1 Battery system

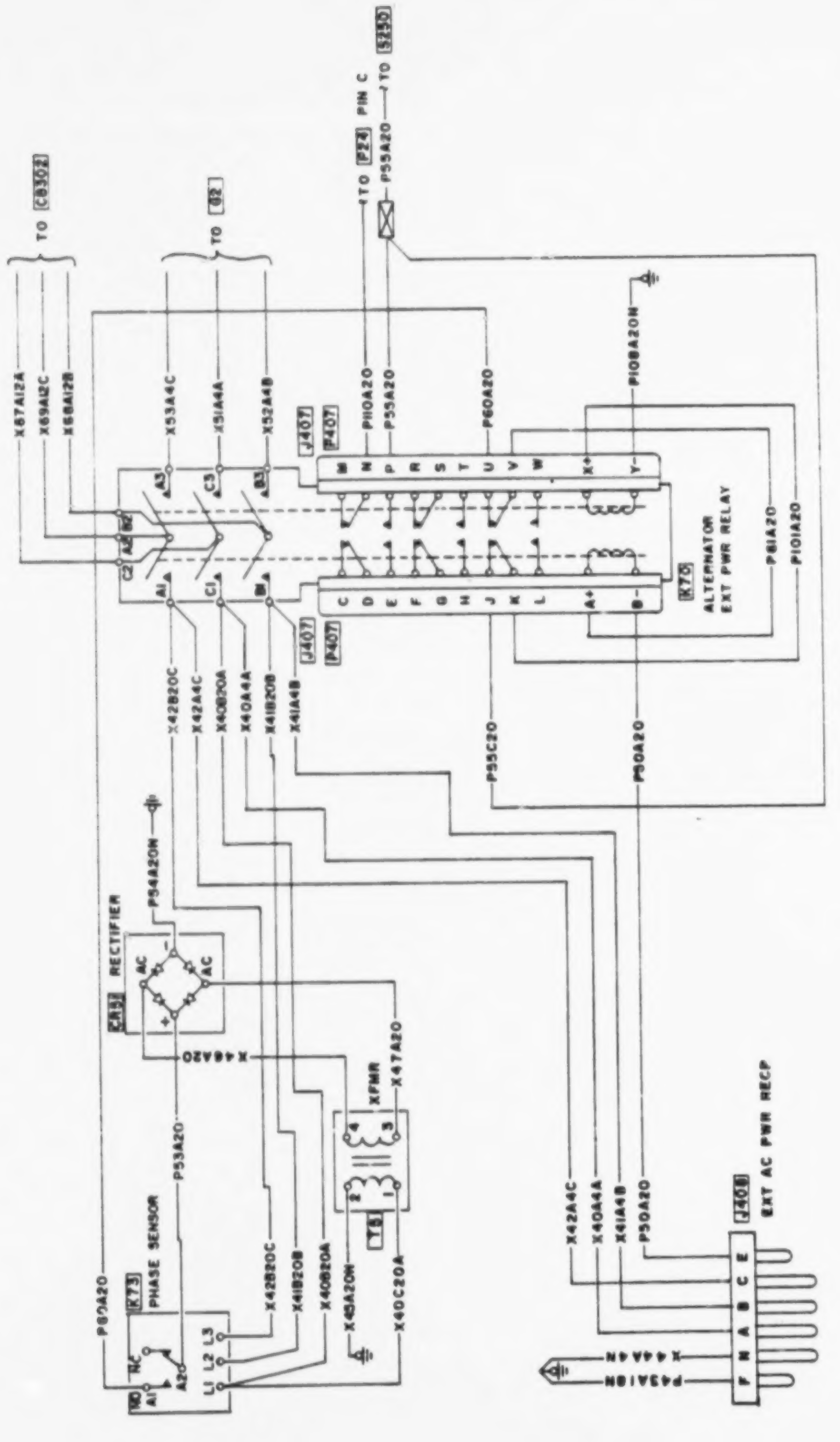

X87A12A
X69A12C
X68A12B
TO CB302
X53A4C
X51A4A
X52A4B
TO G2
TO P24
PIN C
TO S230
P110A20
P55A20
P60A20
P108A20N
J407
P407
A3
C3
B3
C2
A2
B2
A1
C1
B1
M N P R S T U V W
C D E F G H J K L
X+ Y-
A+ B-
K70
ALTERNATOR
EXT PWR RELAY
P61A20
P101A20
X42B20C
X42A4C
X40B20A
X40A4A
X41B20B
X41A4B
P55C20
P50A20
P54A20N
CR52
RECTIFIER
AC
AC
+
-
X46A20
X47A20
XFMR
T5
1 2 3 4
P53A20
P60A20
K73
PHASE SENSOR
NO
A1
NC
A2
L1 L2 L3
X42B20C
X41B20B
X40B20A
X45A20N
X40C20A
X42A4C
X40A4A
X41A4B
P50A20
J408
EXT AC PWR RECP
A B C E
F N
P43A18N
X44A4N

Figure F-19.1 EB External 3 Phase Power System

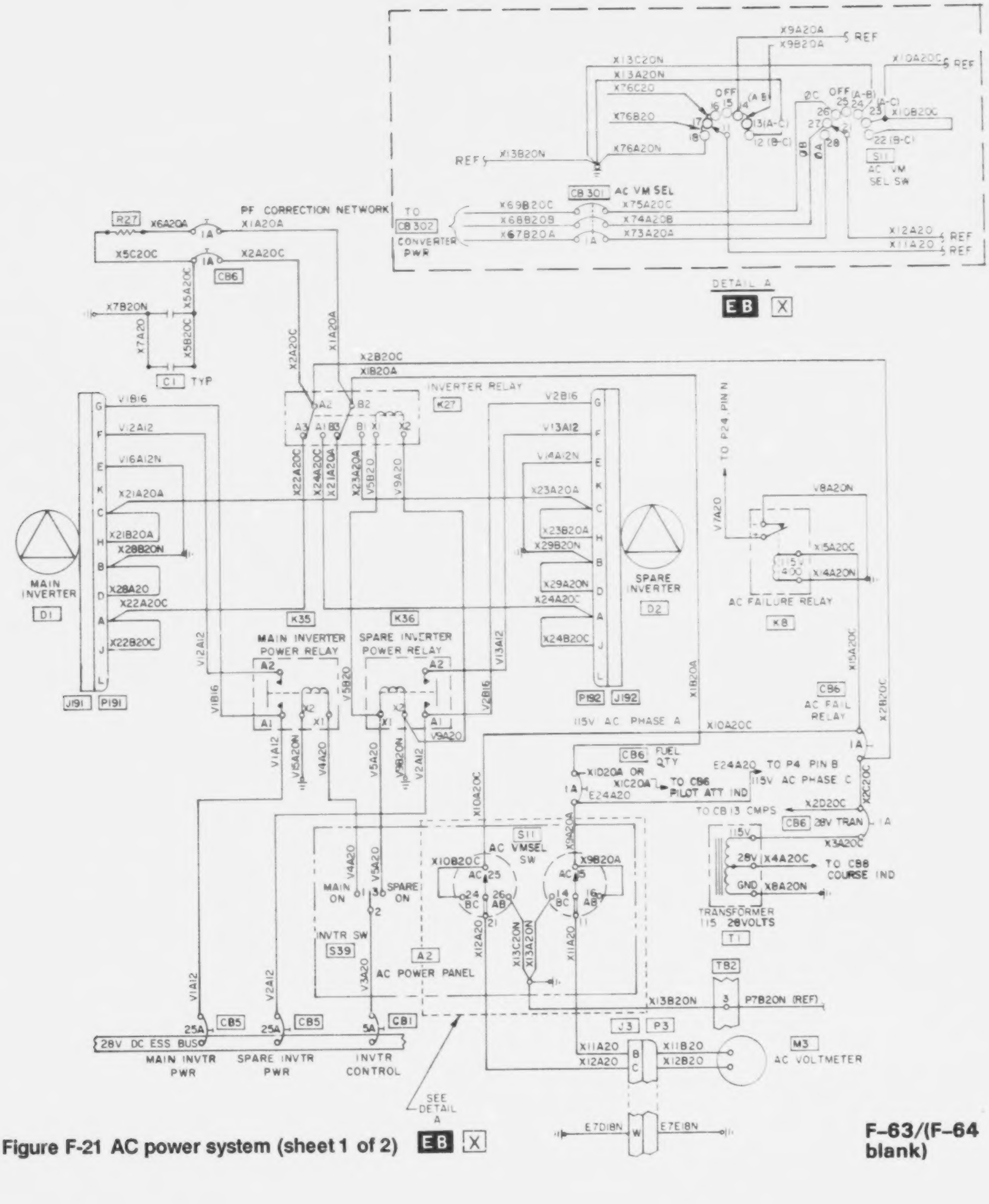
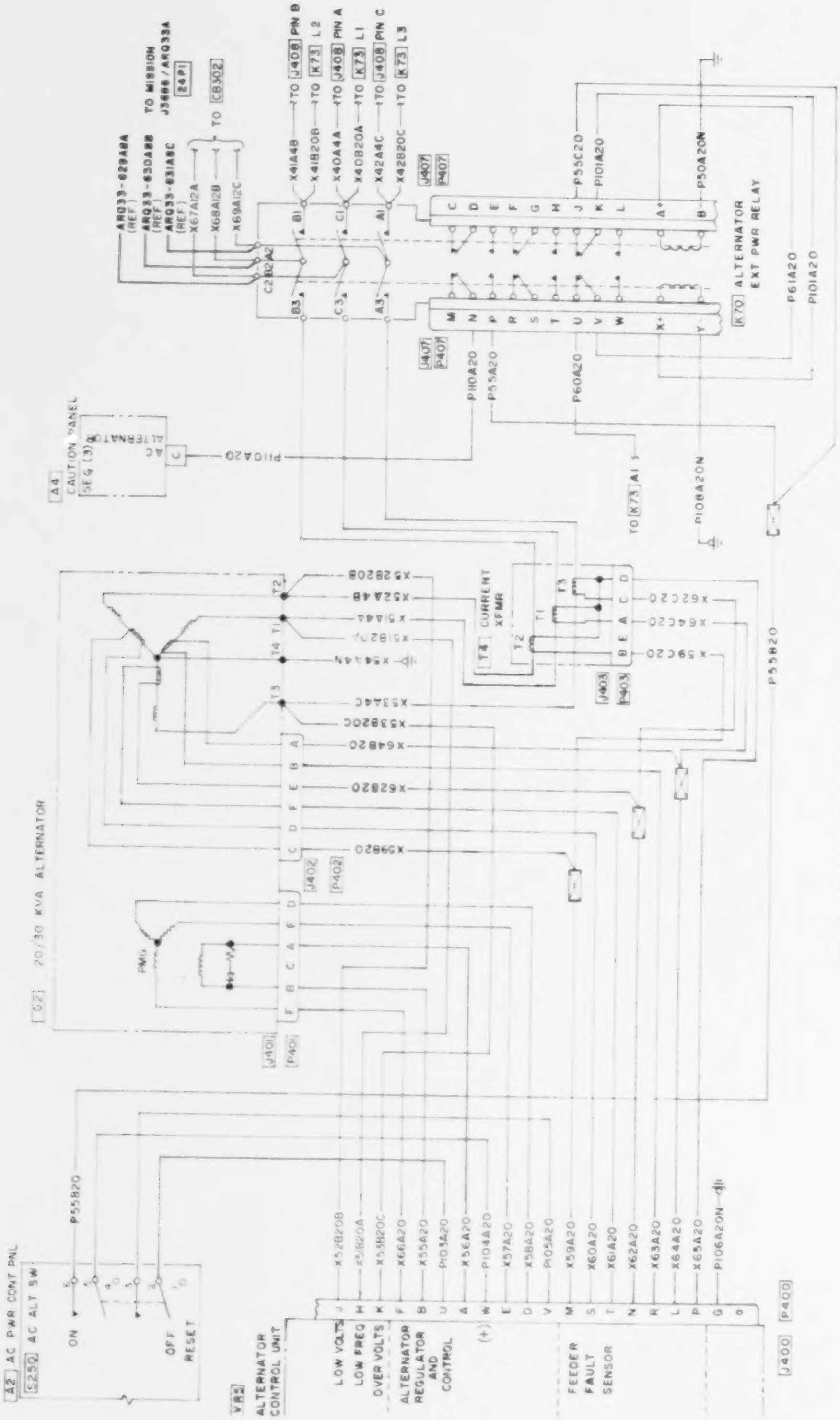
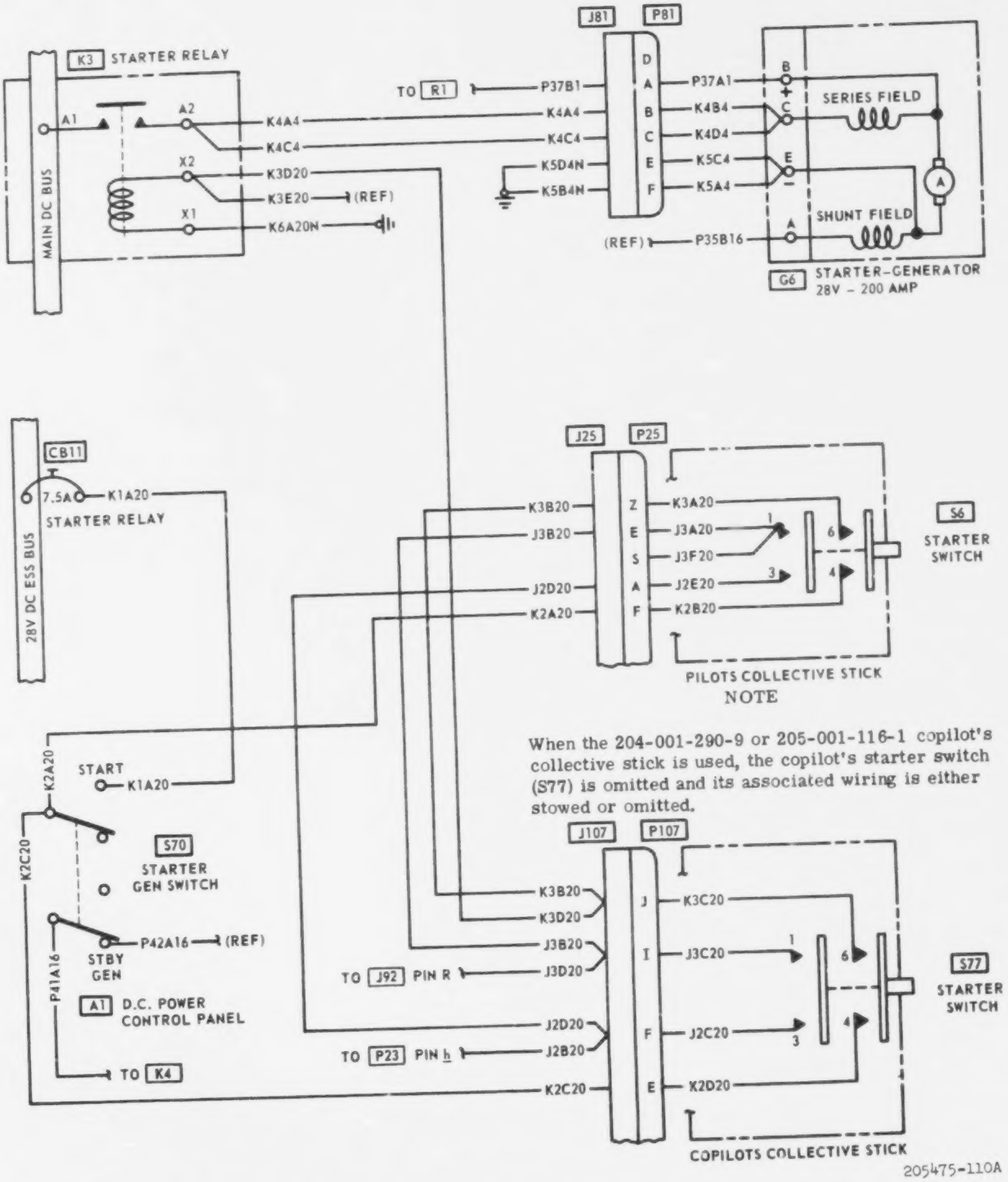

X9A20A
X9B20A
REF
X10A20C
X13C20N
X13A20N
X76C20
X76B20
X76A20N
REF
X13B20N
OFF
(A-B)
13(A-C)
12 (B-C)
ØC
ØB
ØA
OFF (A-B)
(A-C)
X10B20C
22 (B-C)
S11
AC VM SEL SW
CB301
AC VM SEL
TO
CB302
CONVERTER PWR
X69B20C
X68B20B
X67B20A
X75A20C
X74A20B
X73A20A
X12A20
X11A20
REF
DETAIL A
EB
X
R27
X6A20A
PF CORRECTION NETWORK
X1A20A
X5C20C
X2A20C
CB6
X7B20N
X7A20
X5B20C
X5A20C
C1
TYP
X2B20C
X1B20A
INVERTER RELAY
K27
A2
B2
A3
A1
B3
B1
X1
X2
X22A20C
X24A20C
X21A20A
X23A20A
V5B20
V9A20
TO P24 PIN N
V1B16
V12A12
V16A12N
X21A20A
X21B20A
X28B20N
X28A20
X22A20C
X22B20C
MAIN INVERTER
D1
J191
P191
V2B16
V13A12
V14A12N
X23A20A
X23B20A
X29B20N
X29A20N
X24A20C
X24B20C
SPARE INVERTER
D2
P192
J192
115V AC PHASE A
V7A20
V8A20N
X15A20C
X14A20N
115V 400
AC FAILURE RELAY
K8
K35
MAIN INVERTER POWER RELAY
K36
SPARE INVERTER POWER RELAY
V12A12
V1B16
V5B20
V2B16
V13A12
X1B20A
V1A12
V15A20N
V4A20
V5A20
V9B20N
V2A12
V9A20
X10A20C
CB6
AC FAIL RELAY
X15A20C
X2B20C
CB6
FUEL QTY
X10D20A OR
X1C20A
TO CB6 PILOT ATT IND
E24A20
E24A20 TO P4 PIN B
115V AC PHASE C
X2C20C
X2D20C
TO CB13 CMPS
CB6
28V TRAN
X3A20C
115V
28V
X4A20C
TO CB8 COURSE IND
GND
X8A20N
TRANSFORMER 115 28VOLTS
T1
X10B20C
AC VMSEL SW
S11
X9A20A
X9B20A
MAIN ON
SPARE ON
INVTR SW
S39
V4A20
V5A20
V3A20
A2
AC POWER PANEL
X12A20
X13C20N
X13A20N
X11A20
TB2
X13B20N
P7B20N (REF)
V1A12
V2A12
CB5
CB5
CB1
25A
25A
5A
28V DC ESS BUS
MAIN INVTR PWR
SPARE INVTR PWR
INVTR CONTROL
SEE DETAIL A
J3
P3
X11A20
X12A20
X11B20
X12B20
M3
AC VOLTMETER
E7D18N
E7E18N
W

Figure F-21 AC power system (sheet 1 of 2) **EB** X


A2 AC PWR CONT PNL
S250 AC ALT SW
ON
OFF
RESET
P55B20
VR1
ALTERNATOR CONTROL UNIT
LOW VOLTS
LOW FREQ
OVER VOLTS
ALTERNATOR REGULATOR AND CONTROL
(+)
FEEDER FAULT SENSOR
J400
P400
X52B20B
X51B20A
X53B20C
X66A20
X55A20
P103A20
X56A20
P104A20
X57A20
X58A20
P105A20
X59A20
X60A20
X61A20
X62A20
X63A20
X64A20
X65A20
P106A20N
J401
P401
G2
20/30 KVA ALTERNATOR
PMG
J402
P402
X59B20
X62B20
X64B20
X53B20C
X53A4C
X54A4N
X51B20A
X51A4A
X52A4B
X52B20B
T1
T2
T3
T4
T4 CURRENT XFMR
J403
P403
X59C20
X64C20
X62C20
A4 CAUTION PANEL SEG (3)
AC ALTERNATOR
P110A20
TO K73 A1
P108A20N
P55B20
J407
P407
P110A20
P55A20
P60A20
K70 ALTERNATOR EXT PWR RELAY
P61A20
P101A20
P55C20
P101A20
P50A20N
ARQ33-629A8A (REF)
ARQ33-630A8B (REF)
ARQ33-631A8C (REF)
X67A12A
X68A12B
X69A12C
TO MISSION J3666/ARQ33A 24P1
TO CB302
X41A4B
X41B20B
X40A4A
X40B20A
X42A4C
X42B20C
TO J408 PIN B
TO K73 L2
TO J408 PIN A
TO K73 L1
TO J408 PIN C
TO K73 L3

EB X Figure F-21.1 Alternator system


J81
P81
K3 STARTER RELAY
A1
A2
X2
X1
MAIN DC BUS
K4A4
K4C4
K3D20
K3E20 (REF)
K6A20N
TO R1
P37B1
K4A4
K4C4
K5D4N
K5B4N
D
A
B
C
E
F
P37A1
K4B4
K4D4
K5C4
K5A4
(REF)
P35B16
B
+
C
E
−
A
SERIES FIELD
SHUNT FIELD
A
G6 STARTER-GENERATOR
28V - 200 AMP
CB11
7.5A
K1A20
STARTER RELAY
28V DC ESS BUS
J25
P25
K3B20
J3B20
J2D20
K2A20
Z
E
S
A
F
K3A20
J3A20
J3F20
J2E20
K2B20
1
3
6
4
S6
STARTER
SWITCH
PILOTS COLLECTIVE STICK
K2A20
START
K1A20
K2C20
S70
STARTER
GEN SWITCH
P42A16 (REF)
STBY
GEN
P41A16
A1 D.C. POWER
CONTROL PANEL
TO K4
J107
P107
K3B20
K3D20
J3B20
TO J92 PIN R
J3D20
J2D20
TO P23 PIN h
J2B20
K2C20
J
I
F
E
K3C20
J3C20
J2C20
X2D20
1
3
6
4
S77
STARTER
SWITCH
COPILOTS COLLECTIVE STICK
205475-110A

NOTE

When the 204-001-290-9 or 205-001-116-1 copilot's collective stick is used, the copilot's starter switch (S77) is omitted and its associated wiring is either stowed or omitted.

Figure F-22. Starter system (65-9565 through 67-19537) (Sheet 1 of 2)

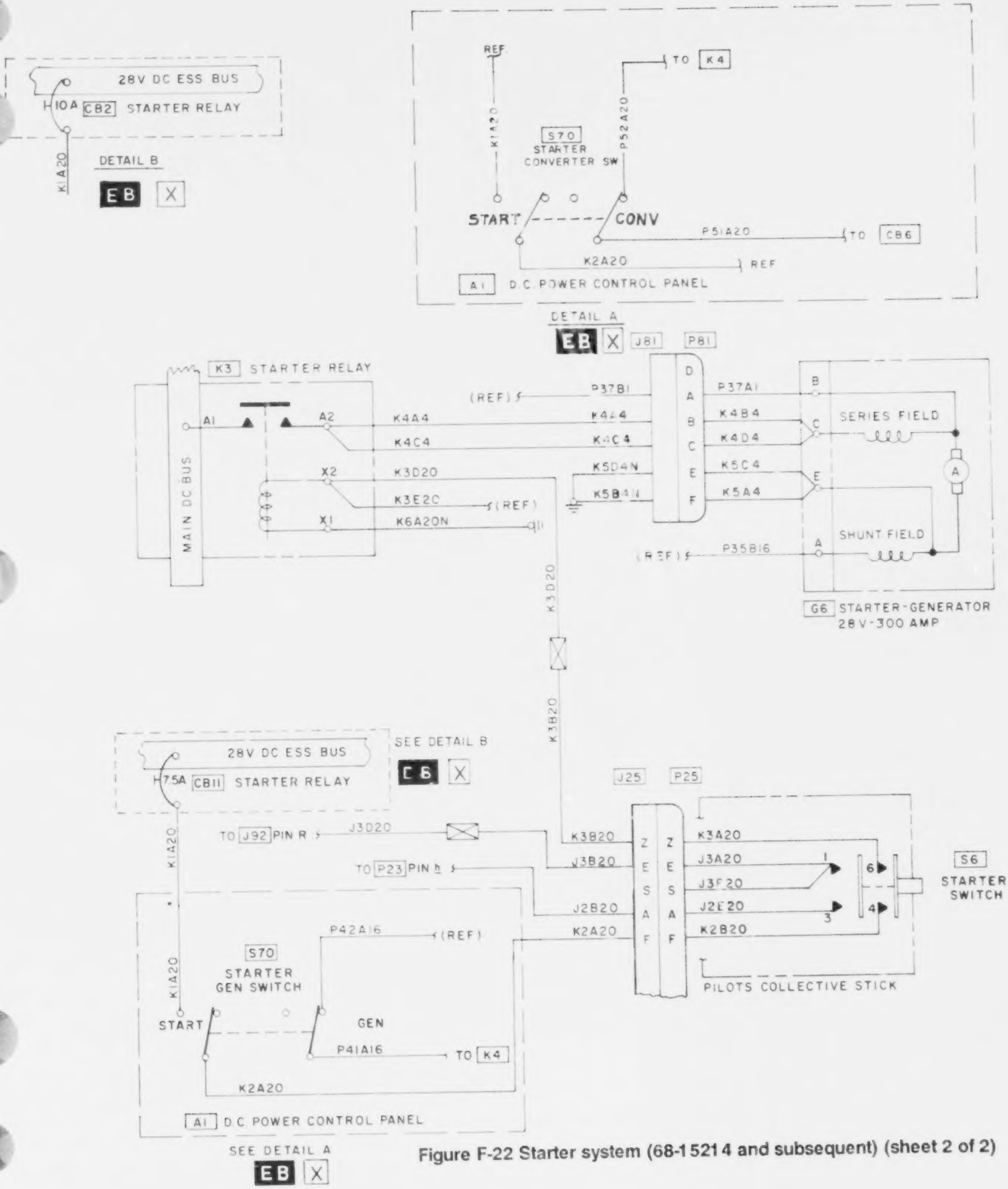

28V DC ESS BUS
10A
CB2
STARTER RELAY
K1A20
DETAIL B
EB
X
REF.
K1A20
TO K4
P52A20
S70
STARTER
CONVERTER SW
START
CONV
P51A20
TO CB6
K2A20
REF
A1
D.C. POWER CONTROL PANEL
DETAIL A
EB
X
J81
P81
K3
STARTER RELAY
A1
A2
X2
X1
MAIN DC BUS
K4A4
K4C4
K3D20
K3E20
(REF)
K6A20N
(REF)
P37B1
K4A4
K4C4
K5D4N
K5B4N
D
A
B
C
E
F
P37A1
K4B4
K4D4
K5C4
K5A4
B
C
E
A
SERIES FIELD
A
SHUNT FIELD
(REF)
P35B16
G6
STARTER-GENERATOR
28V-300 AMP
K3D20
K3B20
28V DC ESS BUS
7.5A
CB11
STARTER RELAY
SEE DETAIL B
EB
X
J25
P25
TO J92 PIN R
J3D20
TO P23 PIN h
K3B20
J3B20
J2B20
K2A20
Z
E
S
A
F
K3A20
J3A20
J3F20
J2E20
K2B20
1
3
6
4
S6
STARTER
SWITCH
PILOTS COLLECTIVE STICK
K1A20
K1A20
P42A16
(REF)
S70
STARTER
GEN SWITCH
START
GEN
P41A16
TO K4
K2A20
A1
D.C. POWER CONTROL PANEL
SEE DETAIL A
EB
X

Figure F-22 Starter system (68-15214 and subsequent) (sheet 2 of 2)

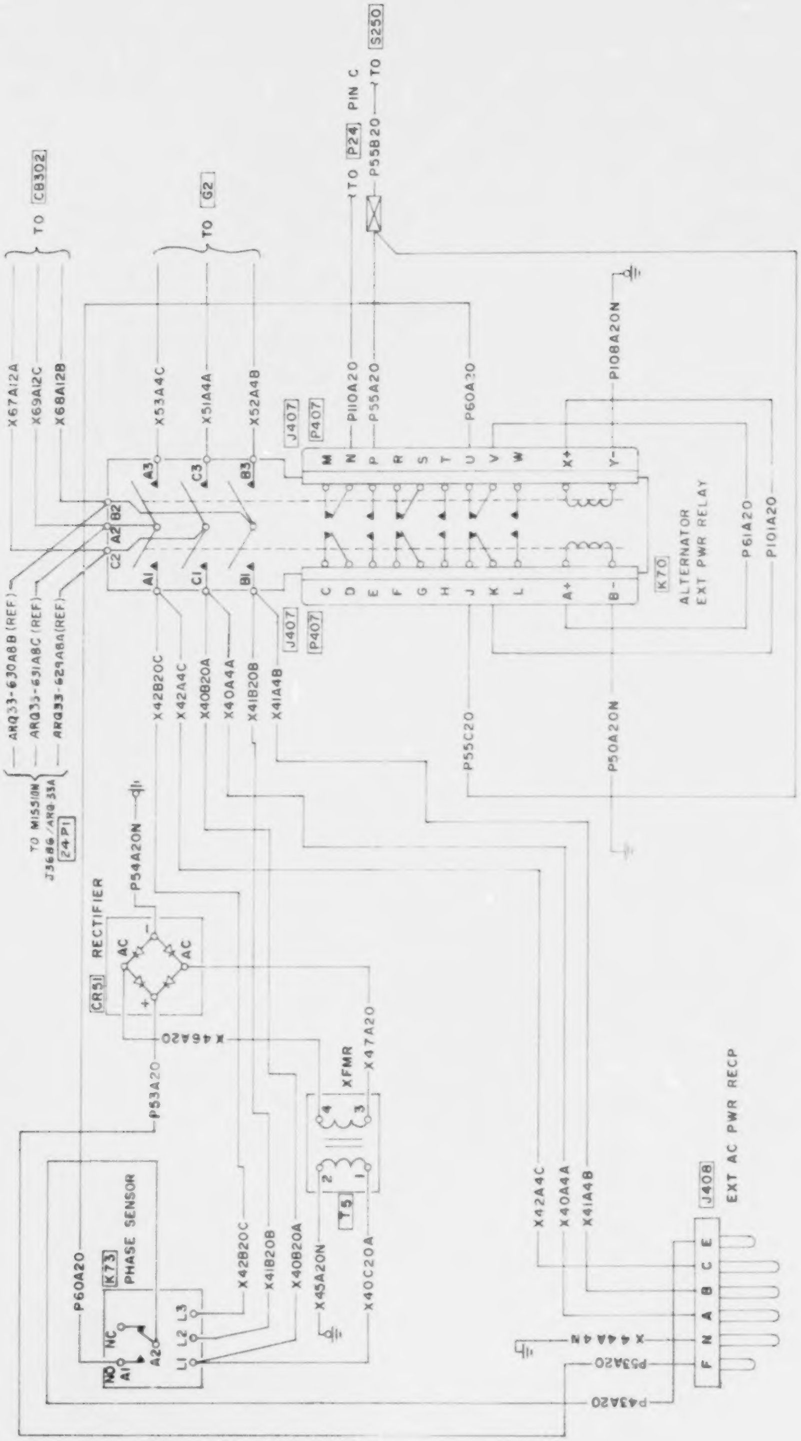
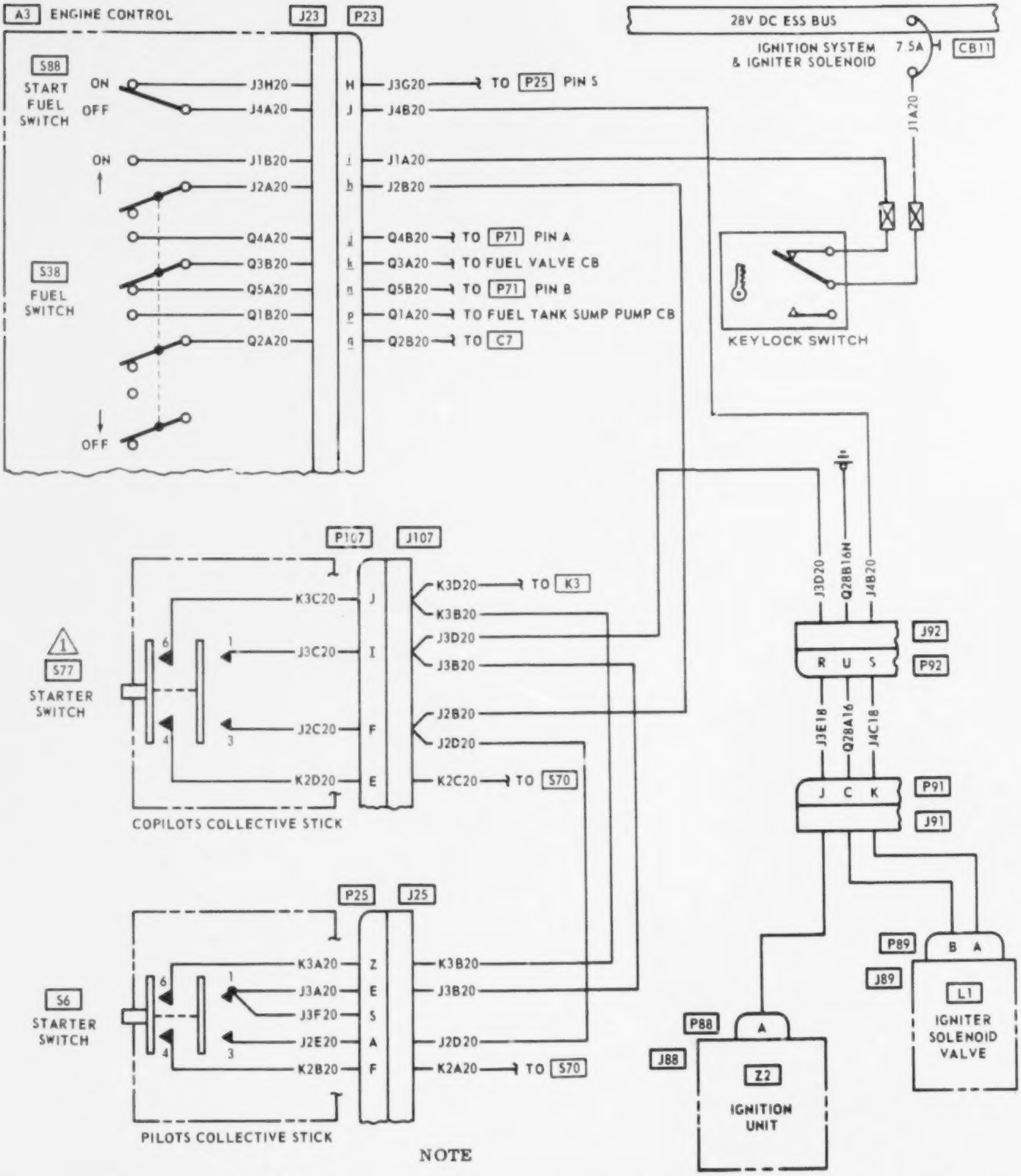

TO S250
TO P24 PIN C
P55B20
TO CB302
TO G2
X67A12A
X69A12C
X68A12B
X53A4C
X51A4A
X52A4B
P110A20
P55A20
P60A20
P108A20N
J407
P407
A1 A2 A3
B1 B2 B3
C1 C2 C3
M N P R S T U V W X+ Y-
C D E F G H J K L A+ B-
K70
ALTERNATOR EXT PWR RELAY
P61A20
P101A20
ARQ33-630A8B (REF)
ARQ33-631A8C (REF)
ARQ33-629A8A (REF)
TO MISSION J3686/ARQ-33A
24P1
X42B20C
X42A4C
X40B20A
X40A4A
X41B20B
X41A4B
P55C20
P50A20N
P54A20N
CR51
RECTIFIER
AC
+
-
X46A20
P53A20
XFMR
X47A20
T5
K73
PHASE SENSOR
NO
NC
A1
A2
L1 L2 L3
P60A20
X42B20C
X41B20B
X40B20A
X45A20N
X40C20A
X42A4C
X40A4A
X41A4B
J408
EXT AC PWR RECP
E C B A N F
X44A4N
P53A20
P43A20

Figure F-22.1 External 3 phase power system EB X

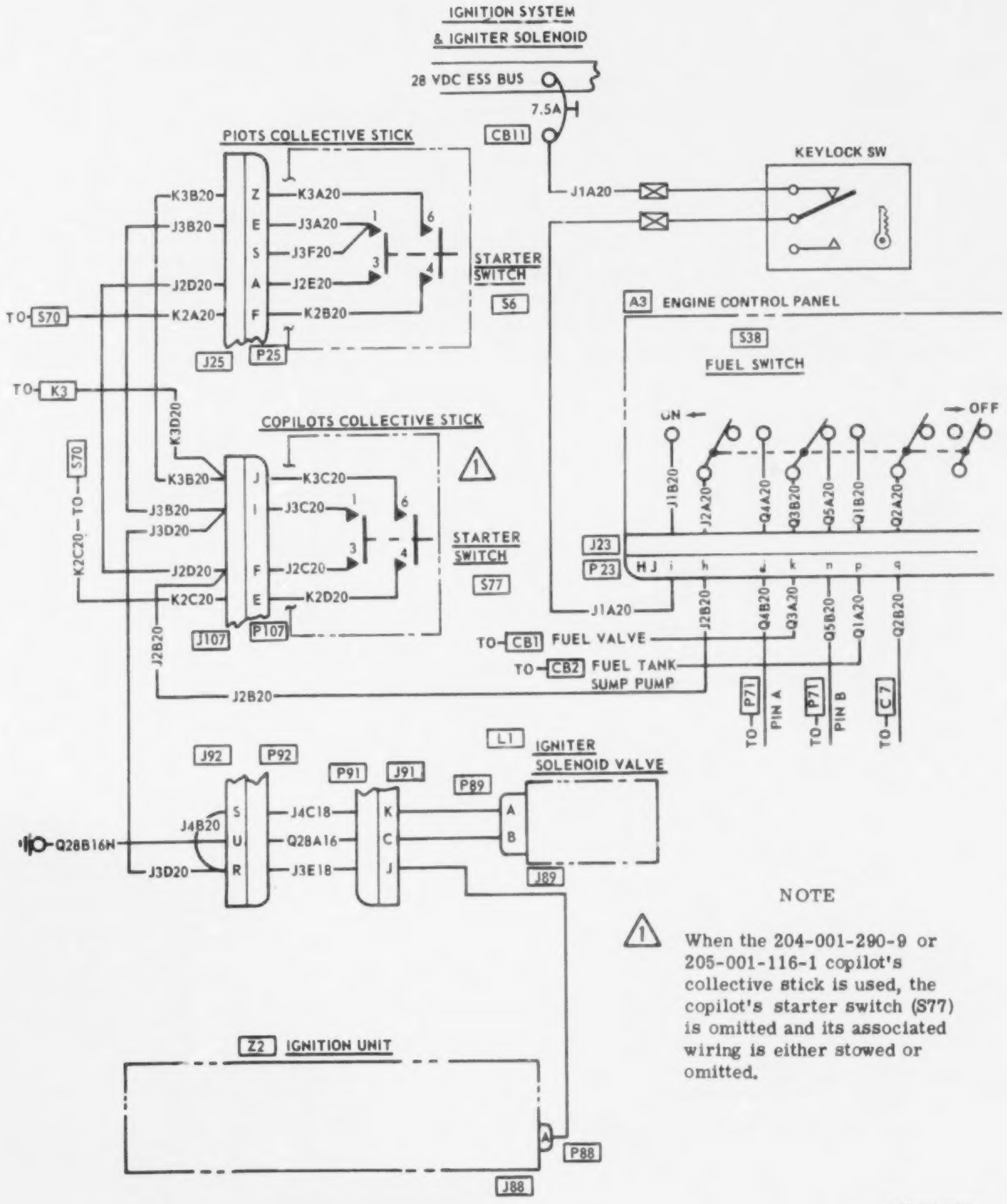

A3 ENGINE CONTROL
J23
P23
S88
START FUEL SWITCH
ON
OFF
J3H20
J4A20
H
J
J3G20
TO P25 PIN 5
J4B20
ON
J1B20
J2A20
i
h
J1A20
J2B20
Q4A20
Q3B20
Q5A20
Q1B20
Q2A20
S38
FUEL SWITCH
j
k
n
p
q
Q4B20
TO P71 PIN A
Q3A20
TO FUEL VALVE CB
Q5B20
TO P71 PIN B
Q1A20
TO FUEL TANK SUMP PUMP CB
Q2B20
TO C7
OFF
28V DC ESS BUS
IGNITION SYSTEM & IGNITER SOLENOID
7.5A
CB11
J1A20
KEYLOCK SWITCH
P107
J107
1
S77
STARTER SWITCH
K3C20
J3C20
J2C20
K2D20
J
I
F
E
6
1
4
3
K3D20
TO K3
K3B20
J3D20
J3B20
J2B20
J2D20
K2C20
TO S70
COPILOTS COLLECTIVE STICK
J3D20
Q28B16N
J4B20
J92
R
U
S
P92
J3E18
Q28A16
J4C18
J
C
K
P91
J91
P25
J25
S6
STARTER SWITCH
K3A20
J3A20
J3F20
J2E20
K2B20
Z
E
S
A
F
6
1
4
3
K3B20
J3B20
J2D20
K2A20
TO S70
PILOTS COLLECTIVE STICK
P89
B
A
J89
L1
IGNITER SOLENOID VALVE
P88
A
J88
Z2
IGNITION UNIT

NOTE

1 When the 204-001-290-9 or 205-001-116-1 copilot's collective stick is used, the copilot's starter switch (S77) is omitted and its associated wiring is either stowed or omitted.

205475-109B
AV 054259

Figure F-23. Ignition system (65-9565 through 66-16033) (Sheet 1 of 3)


IGNITION SYSTEM
& IGNITER SOLENOID
28 VDC ESS BUS
7.5A
CB11
PIOTS COLLECTIVE STICK
K3B20
J3B20
J2D20
K2A20
Z
E
S
A
F
K3A20
J3A20
J3F20
J2E20
K2B20
1
3
6
4
STARTER SWITCH
S6
J25
P25
TO S70
TO K3
K3D20
COPILOTS COLLECTIVE STICK
1
J
I
F
E
K3C20
J3C20
J2C20
K2D20
J3B20
J3D20
J2D20
K2C20
STARTER SWITCH
S77
J107
P107
S70
K2C20 — TO —
J2B20
J1A20
KEYLOCK SW
A3 ENGINE CONTROL PANEL
S38
FUEL SWITCH
ON
OFF
J1B20
J2A20
Q4A20
Q3B20
Q5A20
Q1B20
Q2A20
J23
P23
H J i h j k n p q
J1A20
J2B20
Q4B20
Q3A20
Q5B20
Q1A20
Q2B20
TO CB1 FUEL VALVE
TO CB2 FUEL TANK SUMP PUMP
J2B20
TO P71 PIN A
TO P71 PIN B
TO C7
J92
P92
P91
J91
P89
L1
IGNITER SOLENOID VALVE
S
U
R
J4B20
J4C18
Q28A16
J3E18
K
C
J
A
B
J89
Q28B16N
J3D20
Z2 IGNITION UNIT
A
P88
J88

NOTE

1 When the 204-001-290-9 or 205-001-116-1 copilot's collective stick is used, the copilot's starter switch (S77) is omitted and its associated wiring is either stowed or omitted.

EFF 66-16034 THRU 67-19537

205475-143B
AV 054260

Figure F-23. Ignition system (66-16034 through 67-19537) (Sheet 2 of 3)

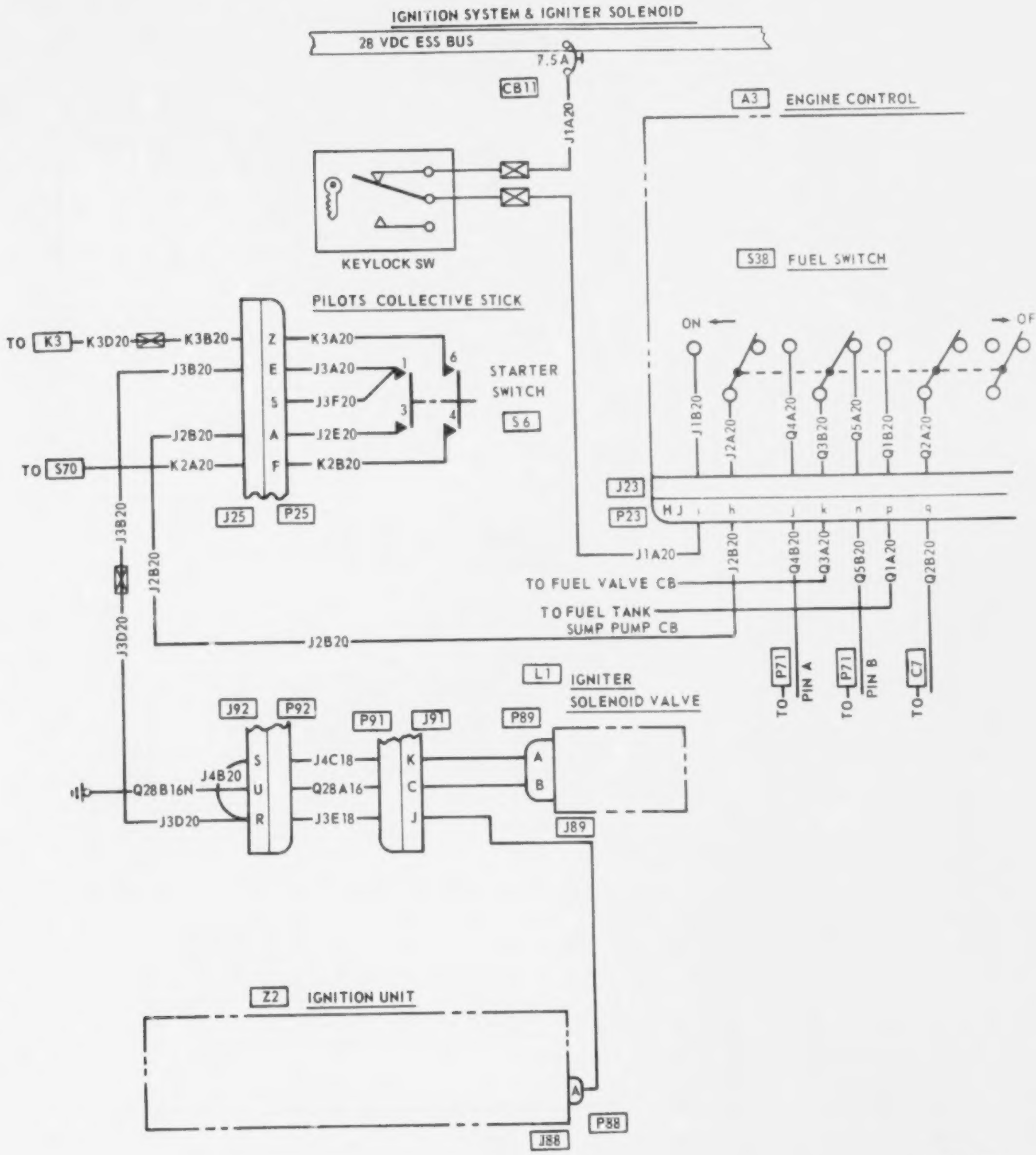

IGNITION SYSTEM & IGNITER SOLENOID
28 VDC ESS BUS
7.5A
CB11
J1A20
A3 ENGINE CONTROL
KEYLOCK SW
S38 FUEL SWITCH
ON
OFF
PILOTS COLLECTIVE STICK
TO K3
K3D20
K3B20
J3B20
J2B20
TO S70
K2A20
Z
E
S
A
F
K3A20
J3A20
J3F20
J2E20
K2B20
1
3
6
4
STARTER SWITCH
S6
J25
P25
J1B20
J2A20
Q4A20
Q3B20
Q5A20
Q1B20
Q2A20
J23
P23
H J i h j k n p q
J1A20
J2B20
Q4B20
Q3A20
Q5B20
Q1A20
Q2B20
TO FUEL VALVE CB
TO FUEL TANK SUMP PUMP CB
J2B20
J3B20
J3D20
TO P71 PIN A
TO P71 PIN B
TO C7
L1 IGNITER SOLENOID VALVE
J92
P92
P91
J91
P89
J4B20
Q28B16N
J3D20
S
U
R
J4C18
Q28A16
J3E18
K
C
J
A
B
J89
Z2 IGNITION UNIT
A
J88
P88
205475-142B
AV 054261

Figure F-23. Ignition system (68-15214 and subsequent) (Sheet 3 of 3)

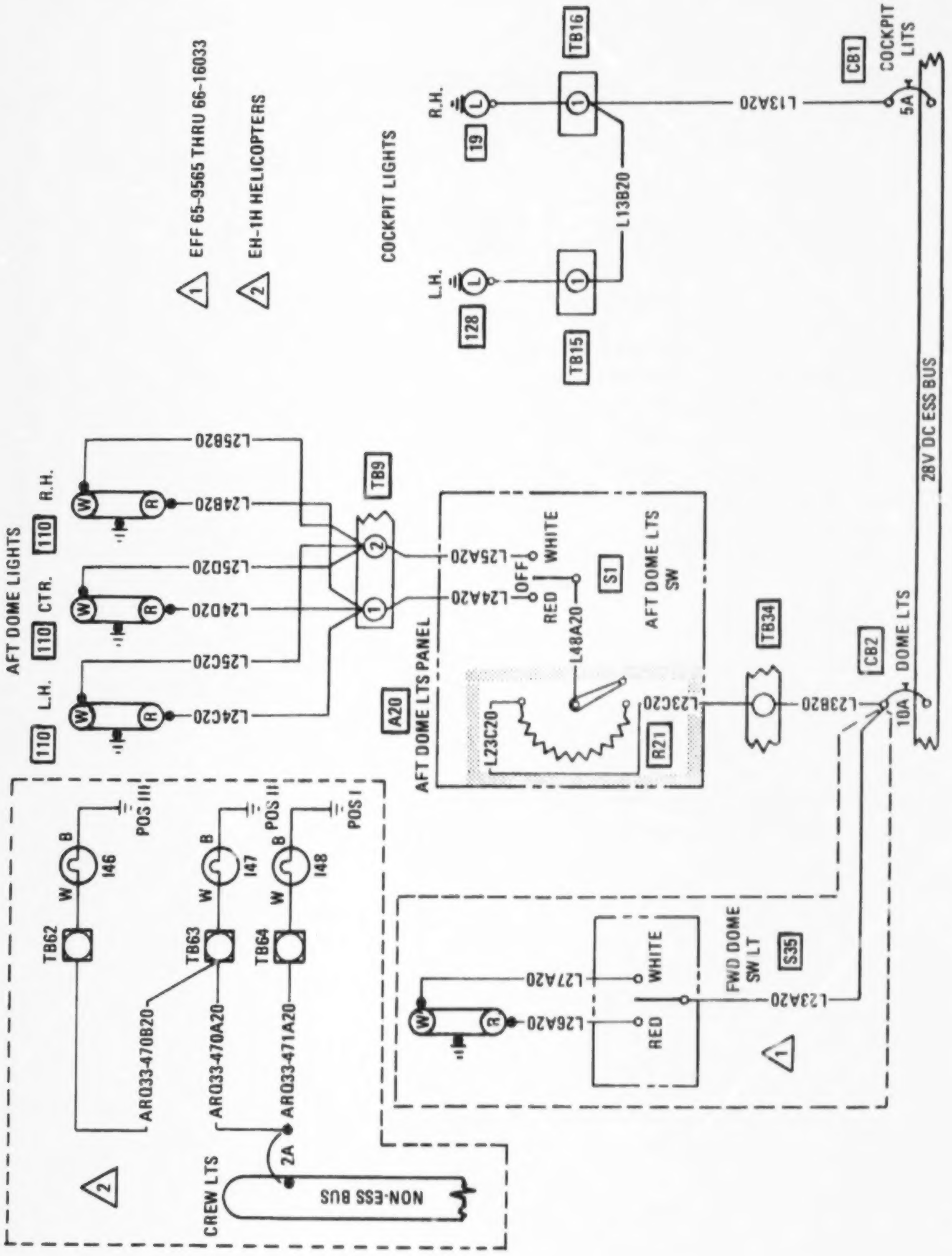
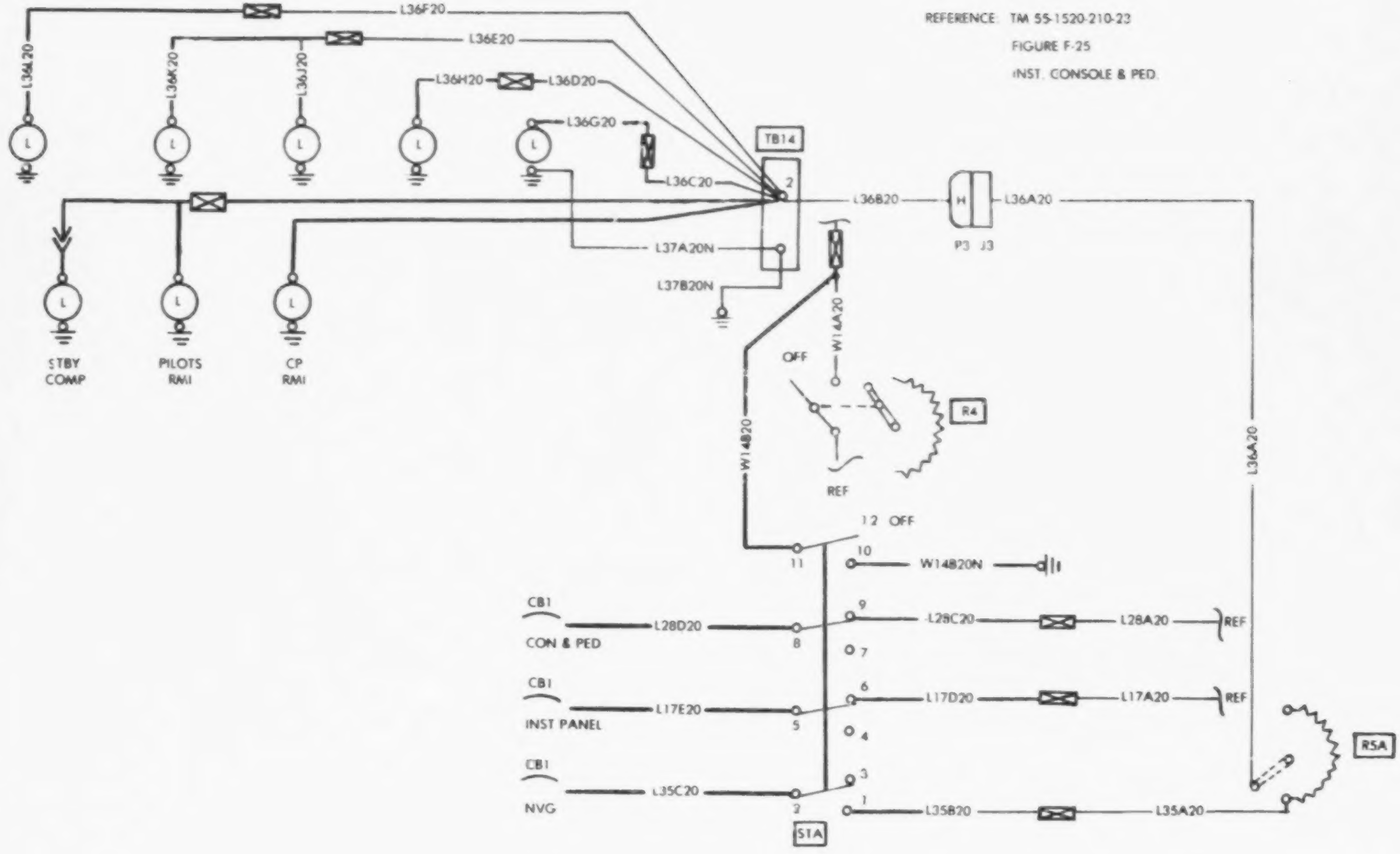

1 EFF 65-9565 THRU 66-16033
2 EH-1H HELICOPTERS
COCKPIT LIGHTS
L.H.
R.H.
128
19
L
1
TB15
TB16
L13B20
L13A20
CB1
COCKPIT LITS
5A
28V DC ESS BUS
AFT DOME LIGHTS
L.H.
CTR.
R.H.
110
W
R
L24C20
L25C20
L24D20
L25D20
L24B20
L25B20
TB9
1
2
L24A20
L25A20
OFF
RED
WHITE
S1
AFT DOME LTS SW
L48A20
A20
AFT DOME LTS PANEL
L23C20
R21
TB34
L23B20
CB2
DOME LTS
10A
FWD DOME SW LT
S35
L23A20
L27A20
L26A20
1
TB62
TB63
TB64
146
147
148
B
POS III
POS II
POS I
AR033-470B20
AR033-470A20
AR033-471A20
2A
CREW LTS
NON-ESS BUS
2

Figure F-24. Cockpit, Dome and Crew Lights System



REFERENCE: TM 55-1520-210-23
FIGURE F-25
INST. CONSOLE & PED.

L36F20
L36E20
L36L20
L36K20
L36J20
L36H20
L36D20
L36G20
L36C20
TB14
2
L36B20
H
L36A20
P3 J3
L37A20N
L37B20N
W14A20
OFF
R4
REF
W14B20
12 OFF
10
11
W14B20N
9
L28C20
L28A20
REF
8
7
6
L17D20
L17A20
REF
5
4
3
2
1
L35B20
L35A20
R5A
S1A
CB1
CON & PED
L28D20
CB1
INST PANEL
L17E20
CB1
NVG
L35C20
L
STBY COMP
PILOTS RMI
CP RMI

Figure F-25.1. Night Vision Goggles (Night Fix-Phase I) Lights System.

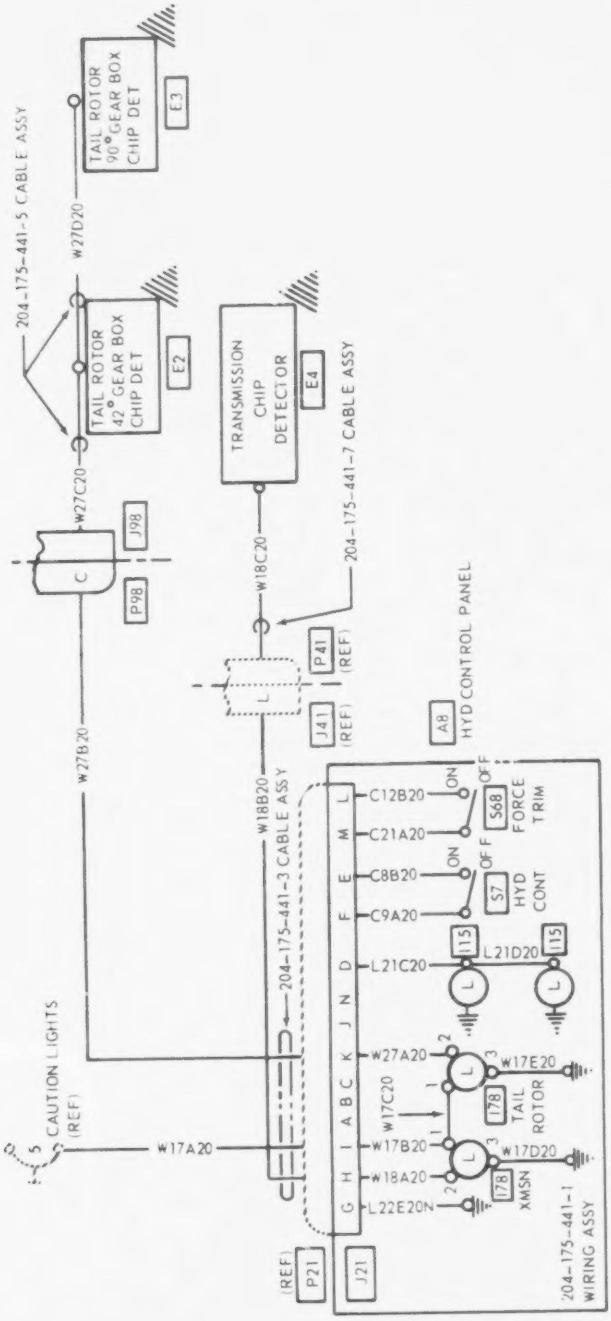

204-175-441-5 CABLE ASSY
W27D20
TAIL ROTOR 90° GEAR BOX CHIP DET
E3
TAIL ROTOR 42° GEAR BOX CHIP DET
E2
TRANSMISSION CHIP DETECTOR
E4
204-175-441-7 CABLE ASSY
W27C20
J98
C
P98
W18C20
P41 (REF)
L
J41 (REF)
A8
HYD CONTROL PANEL
W27B20
W18B20
204-175-441-3 CABLE ASSY
CAUTION LIGHTS (REF)
5
W17A20
L
M
E
F
D
N
J
K
C
B
A
I
H
G
C12B20
C21A20
C8B20
C9A20
L21C20
W27A20
W17C20
W17B20
W18A20
L22E20N
ON
OFF
S68
FORCE TRIM
ON
OFF
S7
HYD CONT
I15
L21D20
I15
L
L
2
3
1
W17E20
I78
TAIL ROTOR
1
3
W17D20
2
I78
XMSN
P21 (REF)
J21
204-175-441-1 WIRING ASSY
205475-160
AV 089285

Figure F-26. Caution lights system (60-6028 through 64-13901) (Sheet 1 of 3)

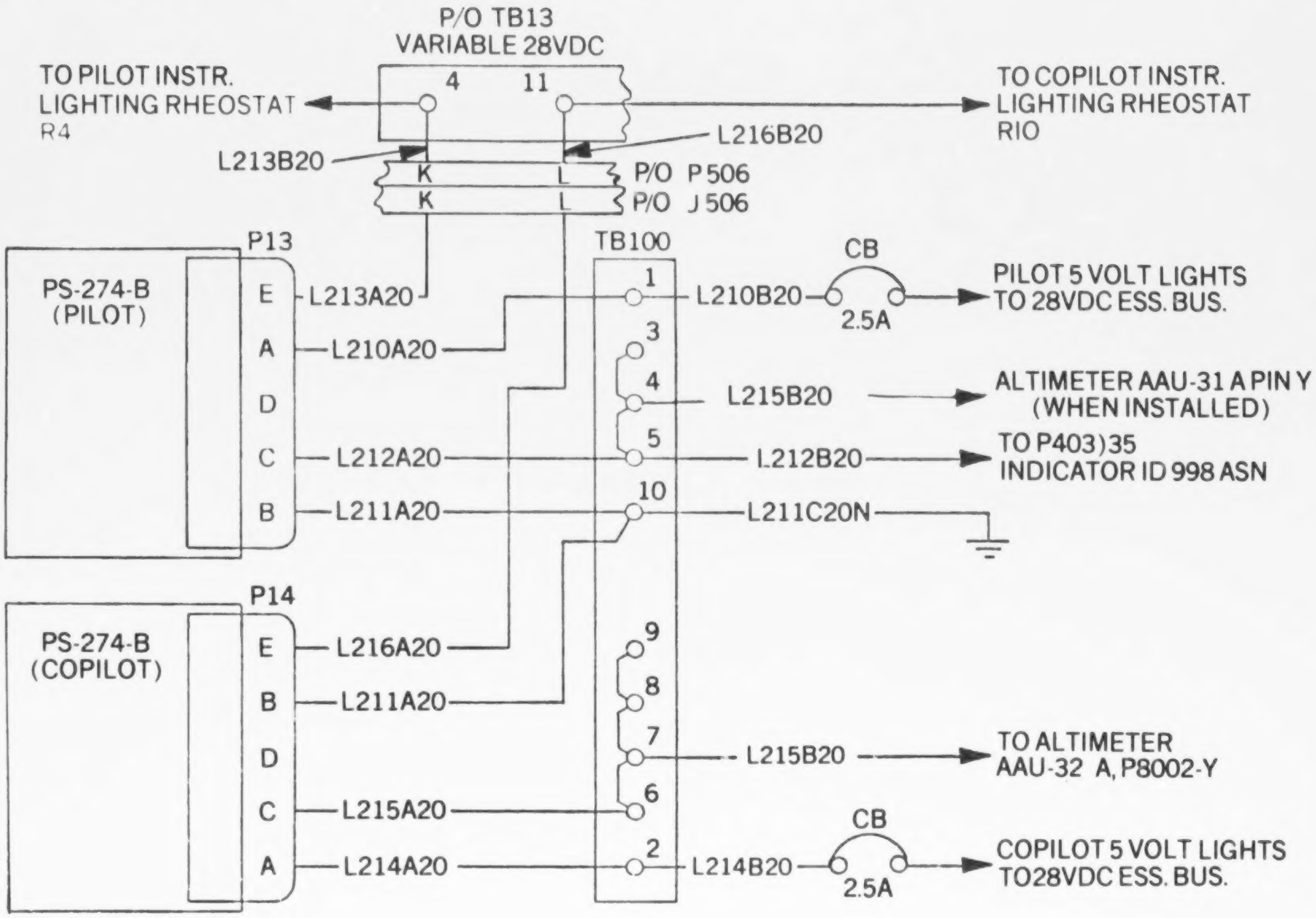

P/O TB13
VARIABLE 28VDC
4
11
TO PILOT INSTR.
LIGHTING RHEOSTAT
R4
TO COPILOT INSTR.
LIGHTING RHEOSTAT
RIO
L213B20
L216B20
K
L
P/O P506
P/O J506
P13
TB100
PS-274-B
(PILOT)
E
A
D
C
B
L213A20
L210A20
L212A20
L211A20
1
3
4
5
10
L210B20
CB
2.5A
PILOT 5 VOLT LIGHTS
TO 28VDC ESS. BUS.
L215B20
ALTIMETER AAU-31 A PIN Y
(WHEN INSTALLED)
L212B20
TO P403)35
INDICATOR ID 998 ASN
L211C20N
P14
PS-274-B
(COPILOT)
E
B
D
C
A
L216A20
L211A20
L215A20
L214A20
9
8
7
6
2
L215B20
TO ALTIMETER
AAU-32 A, P8002-Y
L214B20
CB
2.5A
COPILOT 5 VOLT LIGHTS
TO28VDC ESS. BUS.

Figure F-26.1. 5-VOLT Instrument Lighting System (UH-1V)

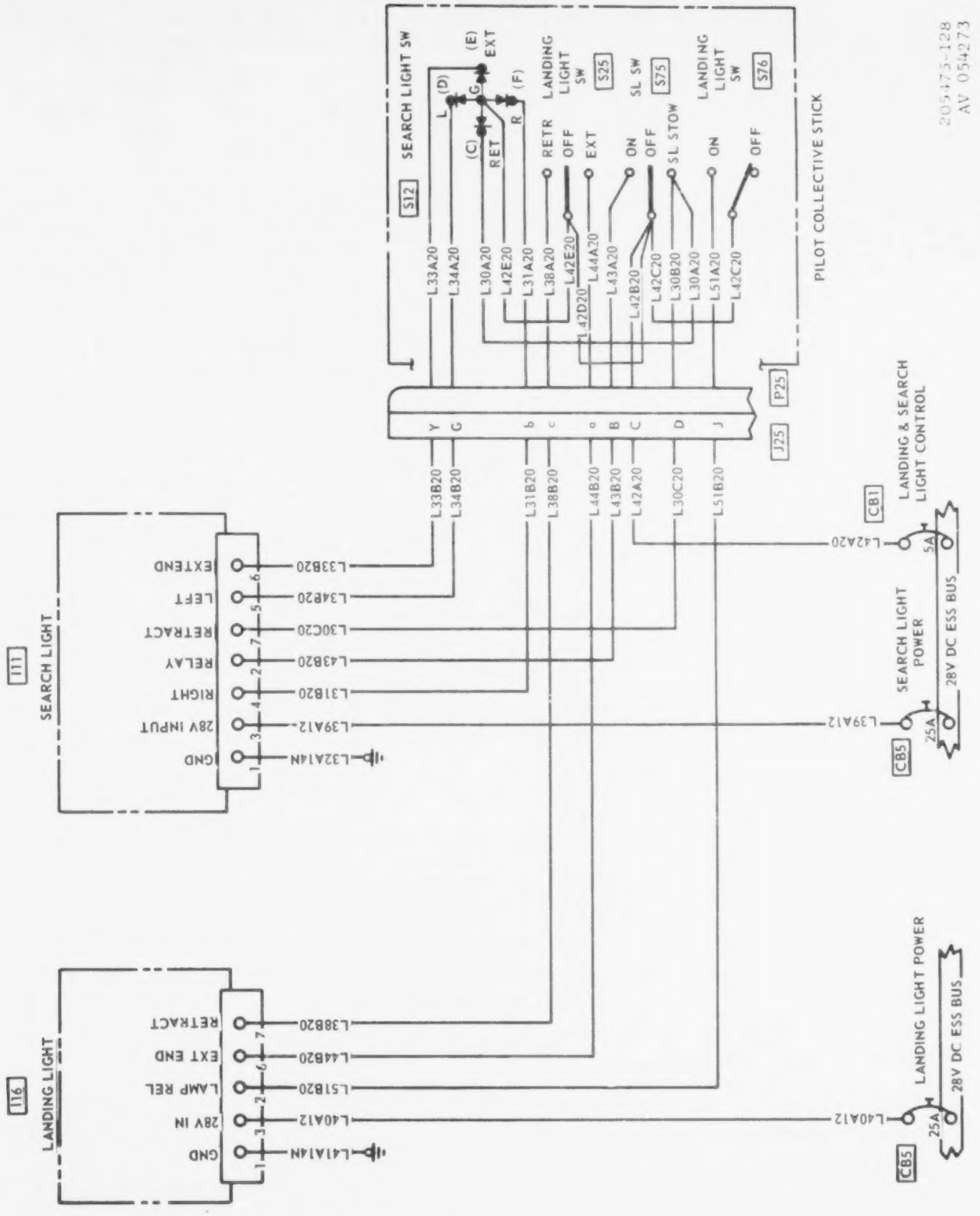
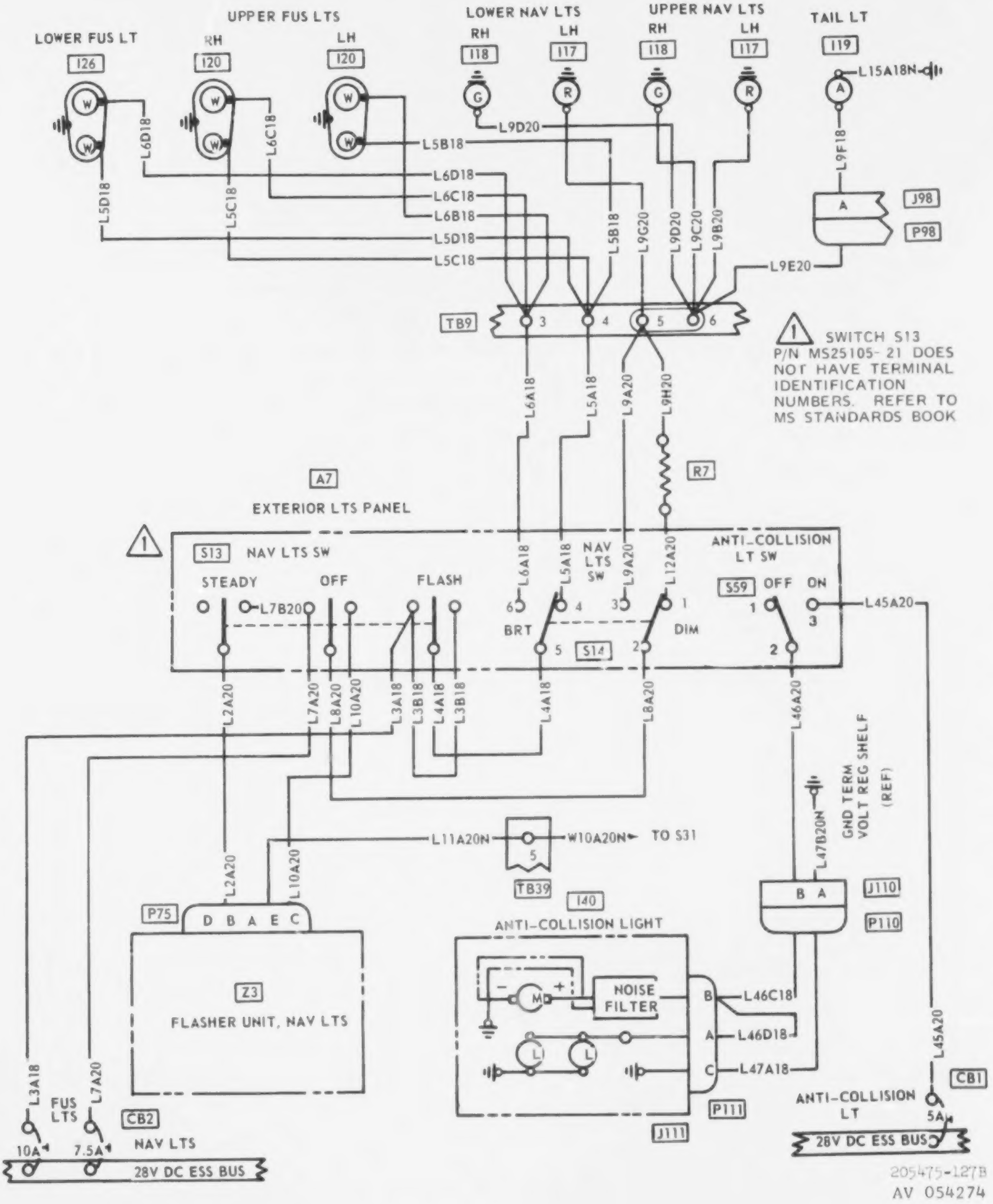
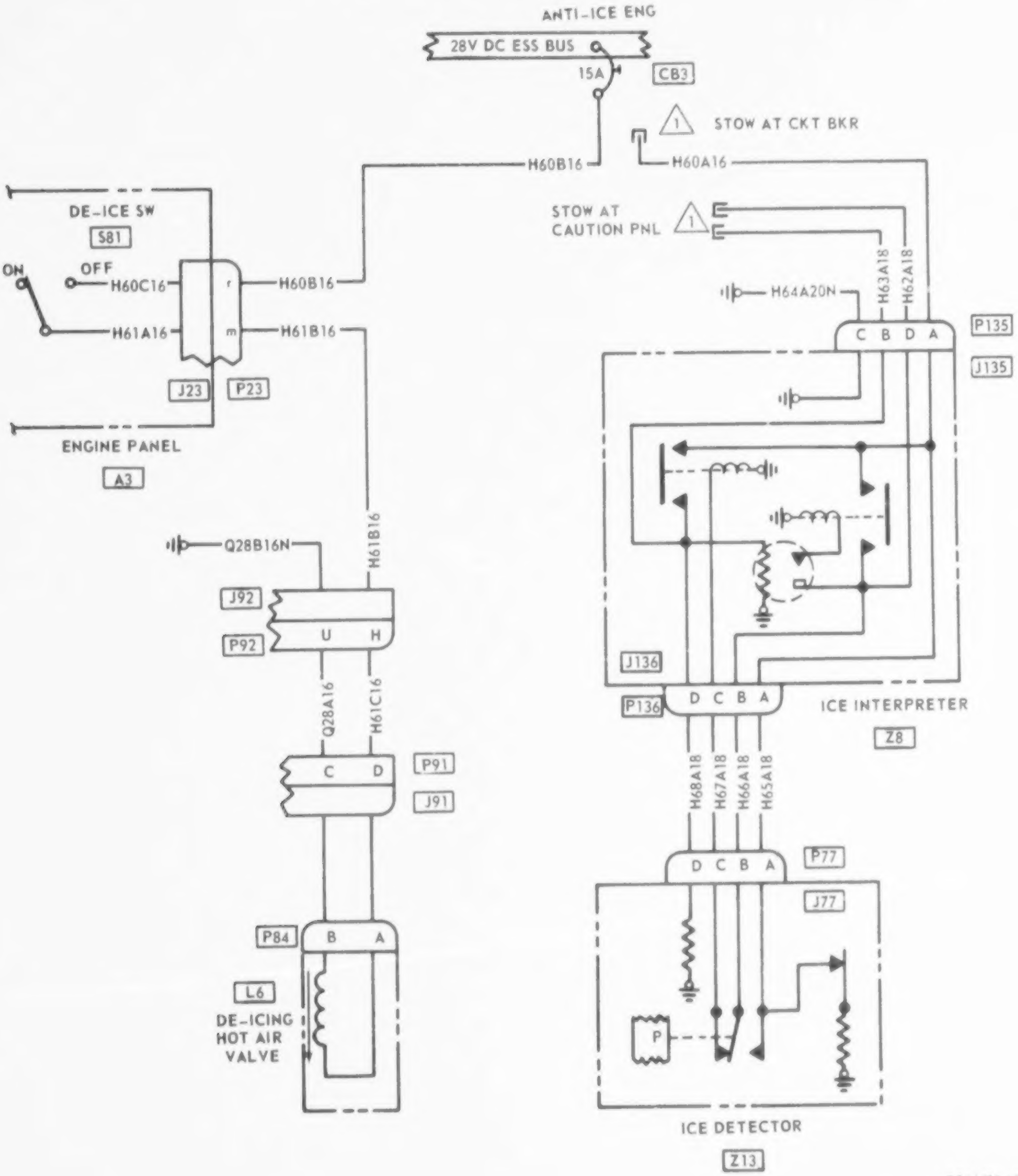

PILOT COLLECTIVE STICK
S12
SEARCH LIGHT SW
L (D)
G
(E) EXT
(F) R
(C) RET
LANDING LIGHT SW
S25
RETR
OFF
EXT
SL SW
S75
ON
OFF
SL STOW
LANDING LIGHT SW
S76
ON
OFF
L33A20
L34A20
L30A20
L42E20
L31A20
L38A20
L42E20
L42D20
L44A20
L43A20
L42B20
L42C20
L30B20
L30A20
L51A20
L42C20
P25
J25
Y
G
b
c
a
B
C
D
J
L33B20
L34B20
L31B20
L38B20
L44B20
L43B20
L42A20
L30C20
L51B20
I11
SEARCH LIGHT
EXTEND
LEFT
RETRACT
RELAY
RIGHT
28V INPUT
GND
6
5
7
2
4
3
1
L33B20
L34B20
L30C20
L43B20
L31B20
L39A12
L32A14N
I16
LANDING LIGHT
RETRACT
EXT END
LAMP REL
28V IN
GND
7
6
2
3
1
L38B20
L44B20
L51B20
L40A12
L41A14N
CB1
LANDING & SEARCH LIGHT CONTROL
5A
L42A20
SEARCH LIGHT POWER
28V DC ESS BUS
CB5
25A
L39A12
LANDING LIGHT POWER
28V DC ESS BUS
CB5
25A
L40A12
205475-128
AV 054273

Figure F-28. Landing and searchlight system


LOWER FUS LT
126
UPPER FUS LTS
RH
120
LH
120
LOWER NAV LTS
RH
118
LH
117
UPPER NAV LTS
RH
118
LH
117
TAIL LT
119
W
G
R
A
L15A18N
L6D18
L6C18
L5B18
L9D20
L9F18
L5D18
L5C18
L6D18
L6C18
L6B18
L5D18
L5C18
L5B18
L9G20
L9D20
L9C20
L9B20
J98
P98
A
L9E20
TB9
3
4
5
6
L6A18
L5A18
L9A20
L9H20
R7
A7
EXTERIOR LTS PANEL
S13
NAV LTS SW
STEADY
OFF
FLASH
L7B20
NAV LTS SW
L6A18
L5A18
L9A20
L12A20
6
4
3
1
BRT
DIM
5
2
S14
ANTI-COLLISION LT SW
S59
OFF
ON
1
3
2
L45A20
L2A20
L7A20
L8A20
L10A20
L3A18
L3B18
L4A18
L3B18
L4A18
L8A20
L46A20
GND TERM VOLT REG SHELF (REF)
L47B20N
L11A20N
W10A20N
TO S31
5
TB39
L2A20
L10A20
J110
B A
P110
P75
D B A E C
Z3
FLASHER UNIT, NAV LTS
140
ANTI-COLLISION LIGHT
M
NOISE FILTER
L
B
A
C
L46C18
L46D18
L47A18
P111
J111
L45A20
CB1
ANTI-COLLISION LT
5A
28V DC ESS BUS
L3A18
L7A20
FUS LTS
CB2
NAV LTS
10A
7.5A
28V DC ESS BUS
205475-127B
AV 054274

⚠1 SWITCH S13 P/N MS25105-21 DOES NOT HAVE TERMINAL IDENTIFICATION NUMBERS. REFER TO MS STANDARDS BOOK

Figure F-29. Navigation, fuselage, and anti-collision lights system


ANTI-ICE ENG
28V DC ESS BUS
15A
CB3
1
STOW AT CKT BKR
H60B16
H60A16
STOW AT CAUTION PNL
1
DE-ICE SW
S81
ON
OFF
H60C16
H61A16
r
m
H60B16
H61B16
J23
P23
ENGINE PANEL
A3
H64A20N
H63A18
H62A18
C B D A
P135
J135
Q28B16N
H61B16
J92
P92
U H
Q28A16
H61C16
C D
P91
J91
J136
P136
D C B A
ICE INTERPRETER
Z8
H68A18
H67A18
H66A18
H65A18
D C B A
P77
J77
P
ICE DETECTOR
Z13
P84
B A
L6
DE-ICING HOT AIR VALVE

1 THE ENGINE ICE DETECTOR SYSTEM IS NOT OPERATIVE WITH SAND AND DUST SEPARATOR INSTALLED. EFFECTIVE 65-9565 THRU 66-16867 AND OTHER HELICOPTERS SO MODIFIED — WIRE H60A16 CONNECTED TO CIRCUIT BREAKER, WIRE H62A18 CONNECTED TO PIN C, P24, WIRE H63A18 CONNECTED TO PIN B, P24.

205475-123A
AV 054270

Figure F-30. De-ice and ice detector system

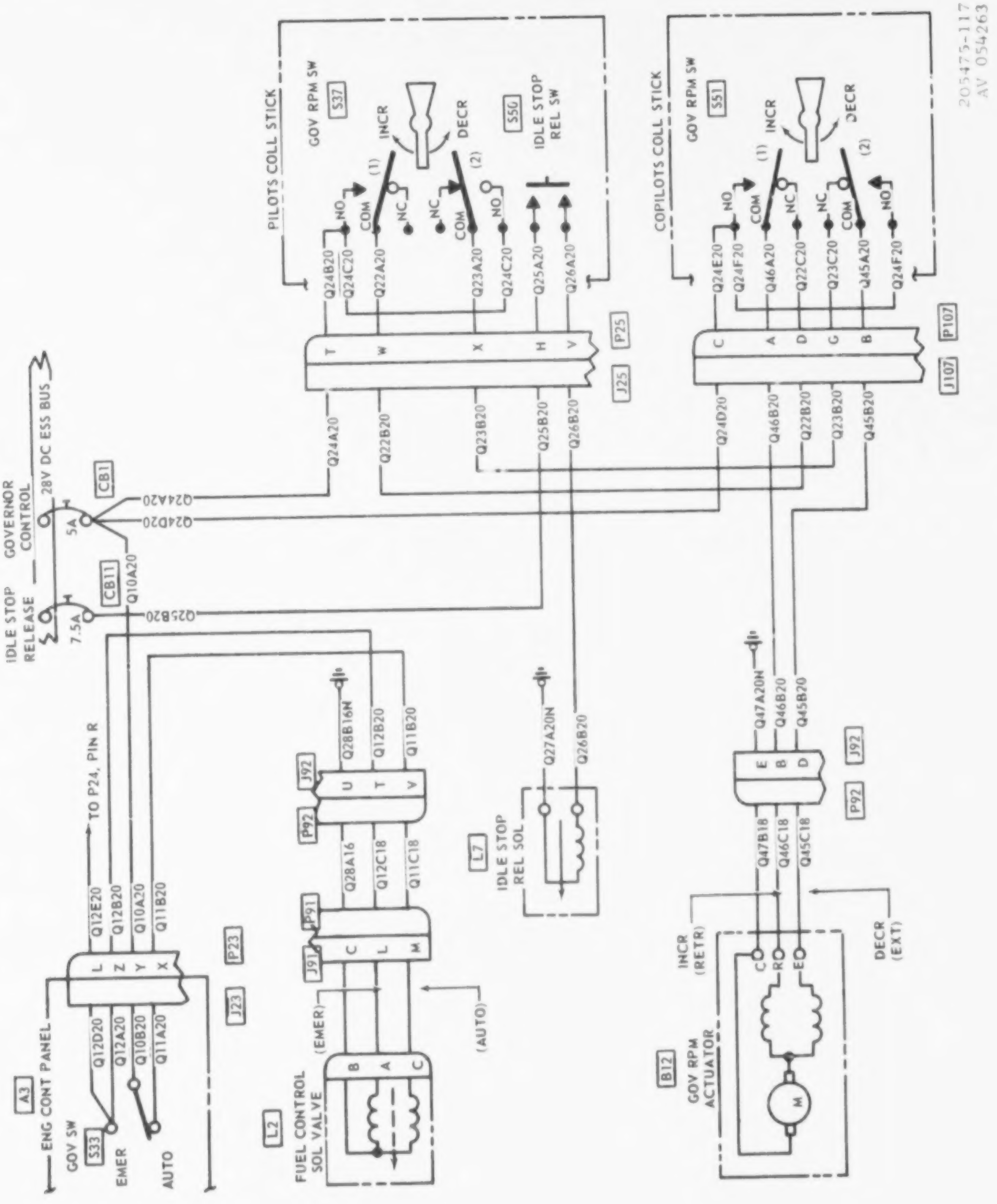

205475-117
AV 054263
PILOTS COLL STICK
GOV RPM SW
S37
INCR
DECR
(1)
(2)
NO
COM
NC
S56
IDLE STOP REL SW
Q24B20
Q24C20
Q22A20
Q23A20
Q24C20
Q25A20
Q26A20
T
W
X
H
V
P25
J25
Q24A20
Q22B20
Q23B20
Q25B20
Q26B20
COPILOTS COLL STICK
GOV RPM SW
S51
Q24E20
Q24F20
Q46A20
Q22C20
Q23C20
Q45A20
Q24F20
C
A
D
G
B
P107
J107
Q24D20
Q46B20
Q22B20
Q23B20
Q45B20
28V DC ESS BUS
GOVERNOR CONTROL
CB1
5A
IDLE STOP RELEASE
CB11
7.5A
Q10A20
Q25B20
TO P24, PIN R
Q28B16N
Q12B20
Q11B20
J92
P92
U
T
V
Q28A16
Q12C18
Q11C18
L7
IDLE STOP REL SOL
Q27A20N
Q26B20
Q47A20N
Q46B20
Q45B20
E
B
D
Q47B18
Q46C18
Q45C18
A3
ENG CONT PANEL
GOV SW
S33
EMER
AUTO
Q12D20
Q12A20
Q10B20
Q11A20
L
Z
Y
X
Q12E20
Q12B20
Q10A20
Q11B20
J23
P23
L2
FUEL CONTROL SOL VALVE
(EMER)
(AUTO)
B
A
C
J91
P91
L
M
B12
GOV RPM ACTUATOR
INCR (RETR)
DECR (EXT)
R
E
M

Figure F-32. Governor control and idle stop systems

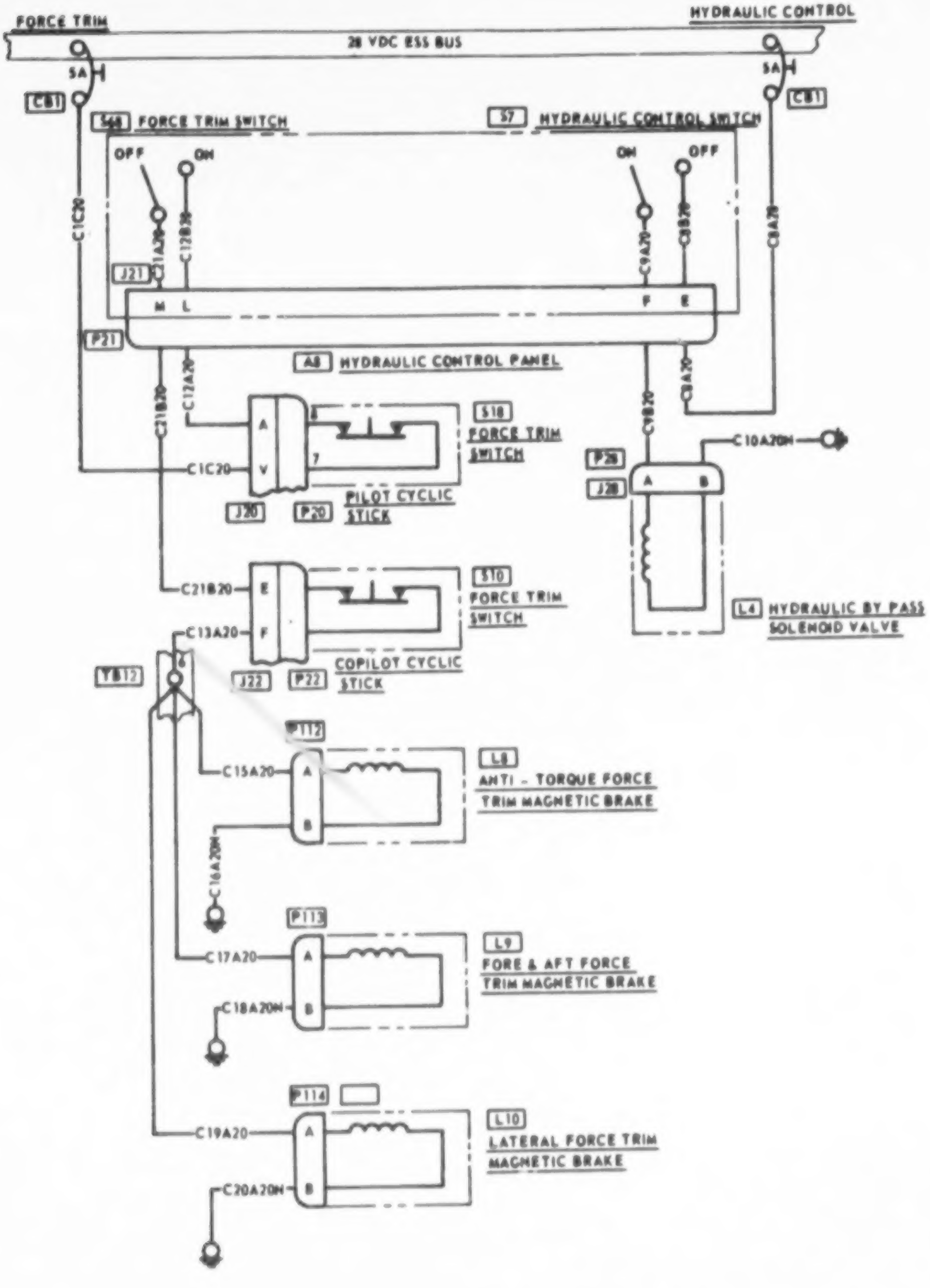
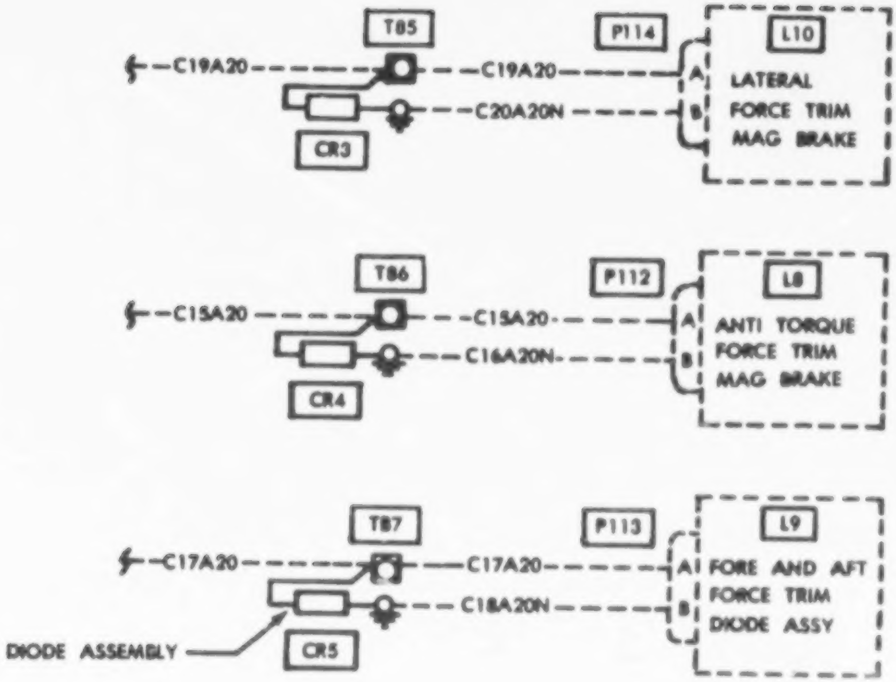
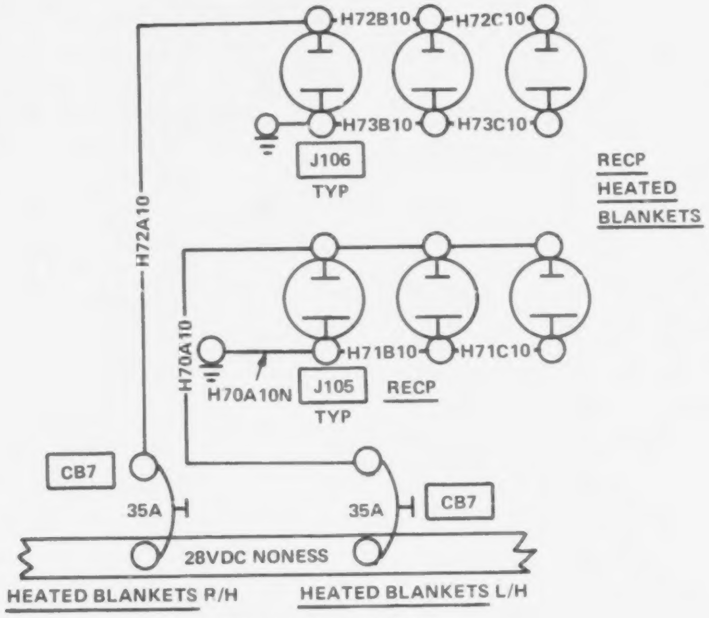

FORCE TRIM
HYDRAULIC CONTROL
28 VDC ESS BUS
5A
5A
CB1
CB1
S68 FORCE TRIM SWITCH
S7 HYDRAULIC CONTROL SWITCH
OFF
ON
ON
OFF
C1C20
C12B20
C9A20
C8B20
C8A20
J21
M
L
F
E
P21
A8 HYDRAULIC CONTROL PANEL
C21B20
C12A20
C9B20
C8A20
S18
FORCE TRIM SWITCH
A
V
7
C1C20
J20
P20
PILOT CYCLIC STICK
C10A20N
P28
J28
A
B
L4 HYDRAULIC BY PASS SOLENOID VALVE
S10
FORCE TRIM SWITCH
C21B20
E
F
C13A20
J22
P22
COPILOT CYCLIC STICK
TB12
P112
C15A20
A
B
L8
ANTI - TORQUE FORCE TRIM MAGNETIC BRAKE
C16A20N
P113
C17A20
A
B
C18A20N
L9
FORE & AFT FORCE TRIM MAGNETIC BRAKE
P114
C19A20
A
B
C20A20N
L10
LATERAL FORCE TRIM MAGNETIC BRAKE

FIGURE F-33. FORCE TRIM AND HYDRAULIC CONTROL SYSTEM (SHEET 1 OF 2)

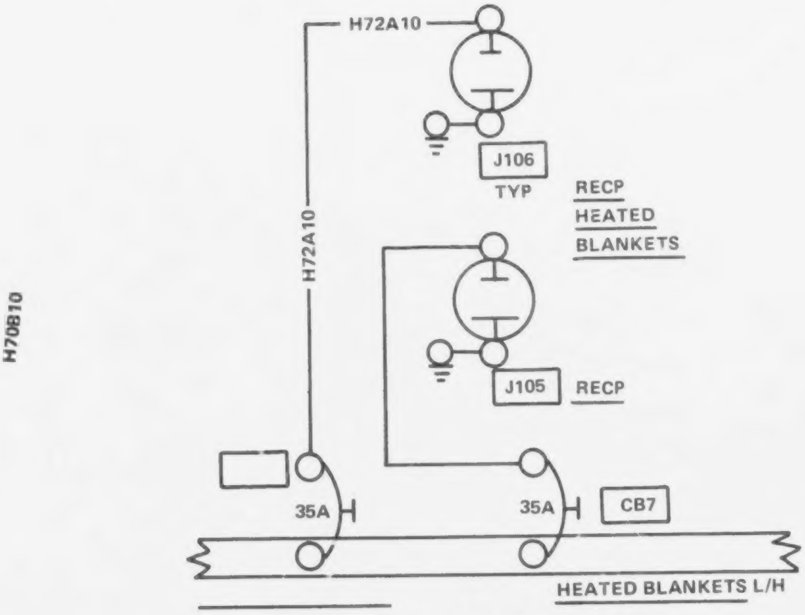

TB5
P114
L10
C19A20
C19A20
A
LATERAL
FORCE TRIM
MAG BRAKE
C20A20N
B
CR3
TB6
P112
L8
C15A20
C15A20
A
ANTI TORQUE
FORCE TRIM
MAG BRAKE
C16A20N
B
CR4
TB7
P113
L9
C17A20
C17A20
A
FORE AND AFT
FORCE TRIM
DIODE ASSY
C18A20N
B
DIODE ASSEMBLY
CR5

NOTE: WIRING DIAGRAM WHEN PROVISIONS FOR AN/APR-39 ARE INSTALLED

FIGURE F-33. FORCE TRIM AND HYDRAULIC CONTROL SYSTEM (SHEET 2 OF 2)


H72B10
H72C10
H73B10
H73C10
J106
TYP
RECP
HEATED
BLANKETS
H72A10
H70A10
H71B10
H71C10
H70A10N
J105
TYP
RECP
CB7
35A
35A
CB7
28VDC NONESS
HEATED BLANKETS R/H
HEATED BLANKETS L/H

EFF 65–9565 THRU 66–16033


H72A10
J106
TYP
RECP
HEATED
BLANKETS
H72A10
H70B10
J105
RECP
35A
35A
CB7
HEATED BLANKETS L/H

EFF 66–16034 AND SUBSEQUENT

Figure F-35. Heated Blanket Receptacle System

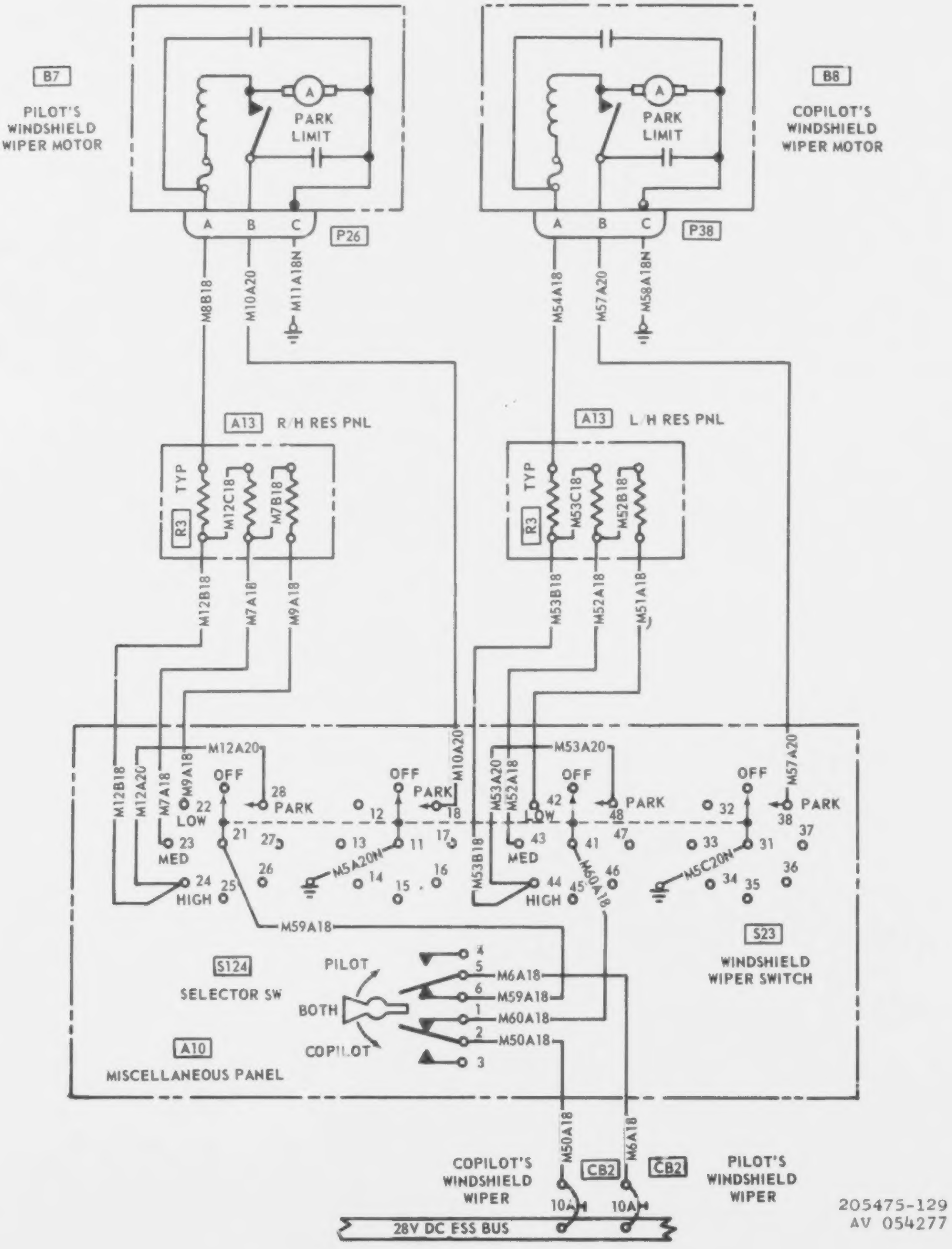
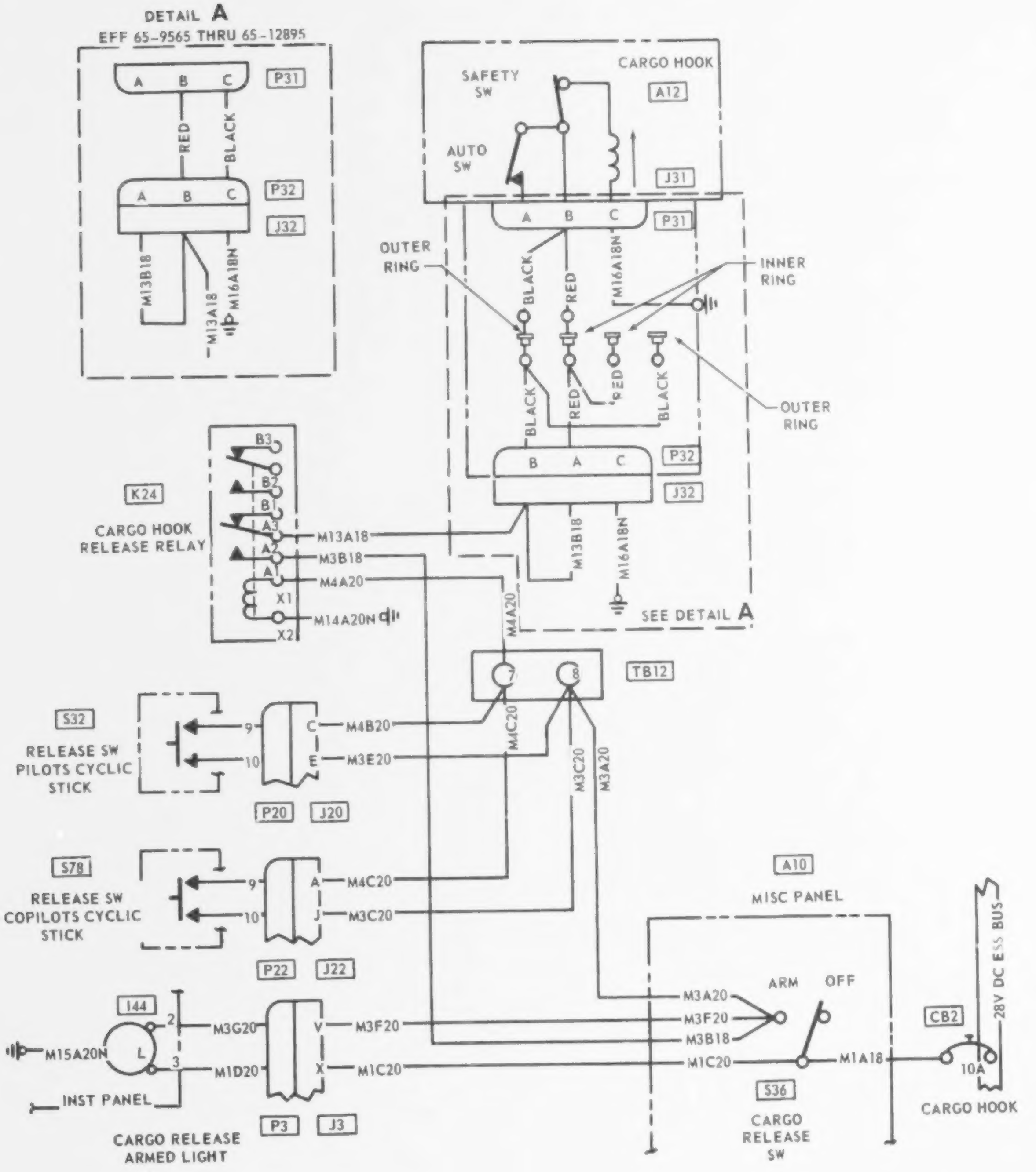

B7
PILOT'S WINDSHIELD WIPER MOTOR
A
PARK LIMIT
A B C
P26
M8B18
M10A20
M11A18N
B8
COPILOT'S WINDSHIELD WIPER MOTOR
A
PARK LIMIT
A B C
P38
M54A18
M57A20
M58A18N
A13 R/H RES PNL
TYP
R3
M12C18
M7B18
M12B18
M7A18
M9A18
A13 L/H RES PNL
TYP
R3
M53C18
M52B18
M53B18
M52A18
M51A18
M12A20
M12B18
M12A20
M7A18
M9A18
OFF
22
LOW
28
PARK
23
MED
21
27
24
HIGH
25
26
OFF
12
PARK
18
M10A20
13
11
17
M5A20N
14
15
16
M53A20
M53B18
M53A20
M52A18
OFF
42
LOW
48
PARK
43
MED
41
47
44
HIGH
45
46
M60A18
OFF
32
PARK
38
33
31
37
M5C20N
34
35
36
M57A20
M59A18
S124
SELECTOR SW
PILOT
BOTH
COPILOT
4
5
M6A18
6
M59A18
1
M60A18
2
M50A18
3
S23
WINDSHIELD WIPER SWITCH
A10
MISCELLANEOUS PANEL
M50A18
M6A18
COPILOT'S WINDSHIELD WIPER
CB2
CB2
PILOT'S WINDSHIELD WIPER
10A
10A
28V DC ESS BUS
205475-129
AV 054277

Figure F-36. Windshield Wiper System


DETAIL A
EFF 65-9565 THRU 65-12895
A B C
P31
RED
BLACK
A B C
P32
J32
M13B18
M13A18
M16A18N
SAFETY SW
CARGO HOOK
A12
AUTO SW
J31
A B C
P31
OUTER RING
INNER RING
BLACK
RED
M16A18N
RED
BLACK
BLACK
RED
OUTER RING
B A C
P32
J32
M13B18
M16A18N
SEE DETAIL A
K24
CARGO HOOK RELEASE RELAY
B3
B2
B1
A3
A2
A1
X1
X2
M13A18
M3B18
M4A20
M14A20N
M4A20
TB12
7
8
S32
RELEASE SW PILOTS CYCLIC STICK
9
10
C
E
M4B20
M3E20
M4C20
M3C20
M3A20
P20
J20
S78
RELEASE SW COPILOTS CYCLIC STICK
9
10
A
J
M4C20
M3C20
P22
J22
A10
MISC PANEL
I44
2
3
M15A20N
L
M3G20
M1D20
V
X
M3F20
M1C20
INST PANEL
P3
J3
CARGO RELEASE ARMED LIGHT
M3A20
M3F20
M3B18
M1C20
ARM
OFF
M1A18
S36
CARGO RELEASE SW
CB2
10A
28V DC ESS BUS
CARGO HOOK

205475-120
AV 054278

Figure F-37. Cargo hook system

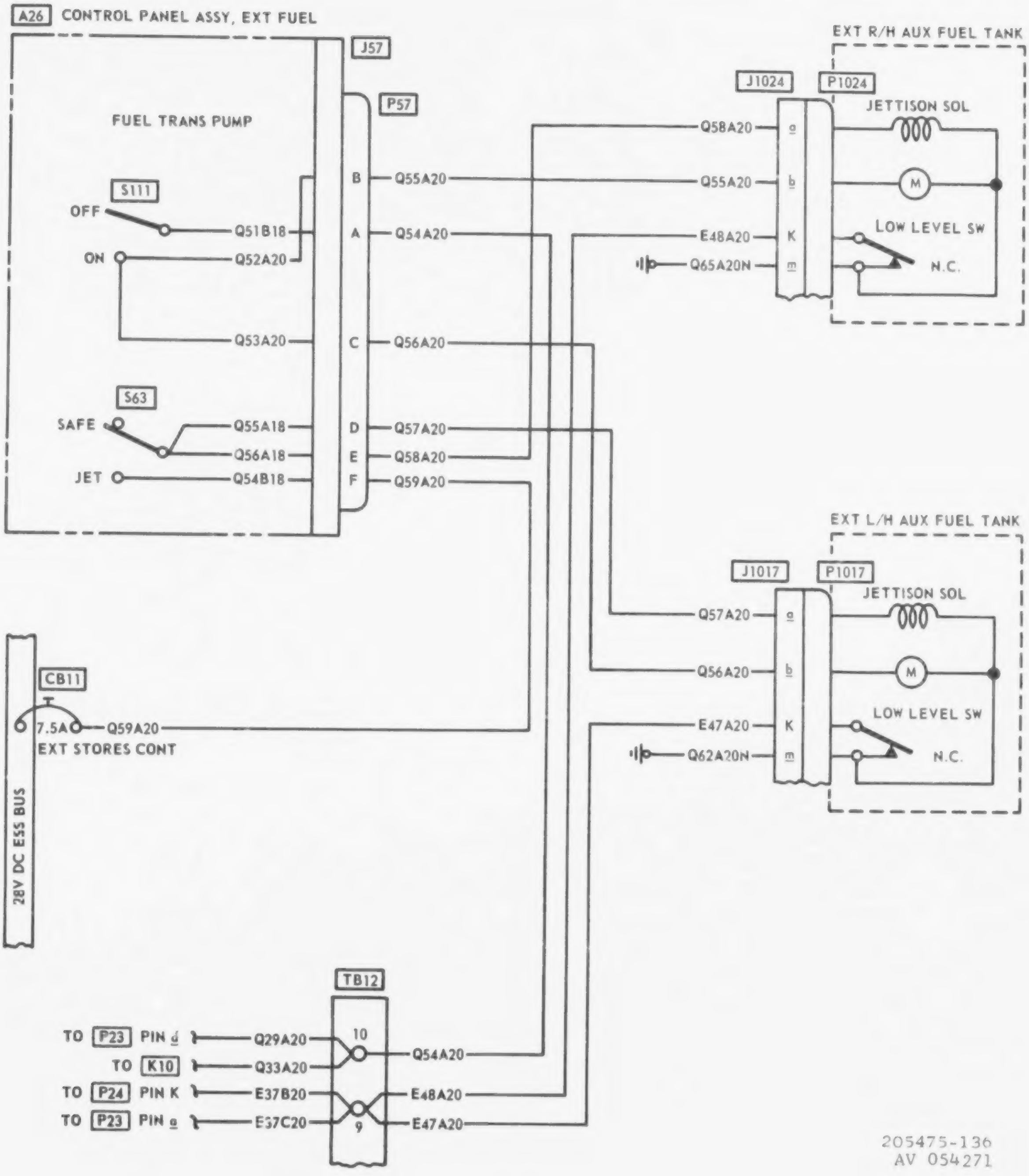

A26
CONTROL PANEL ASSY, EXT FUEL
J57
P57
FUEL TRANS PUMP
S111
OFF
ON
Q51B18
Q52A20
Q53A20
S63
SAFE
JET
Q55A18
Q56A18
Q54B18
B
A
C
D
E
F
Q55A20
Q54A20
Q56A20
Q57A20
Q58A20
Q59A20
EXT R/H AUX FUEL TANK
J1024
P1024
JETTISON SOL
Q58A20
Q55A20
E48A20
Q65A20N
a
b
K
m
M
LOW LEVEL SW
N.C.
EXT L/H AUX FUEL TANK
J1017
P1017
JETTISON SOL
Q57A20
Q56A20
E47A20
Q62A20N
a
b
K
m
M
LOW LEVEL SW
N.C.
CB11
7.5A
Q59A20
EXT STORES CONT
28V DC ESS BUS
TB12
TO P23 PIN d
TO K10
TO P24 PIN K
TO P23 PIN a
Q29A20
Q33A20
E37B20
E37C20
10
9
Q54A20
E48A20
E47A20
205475-136
AV 054271

Figure F-39. External fuel system

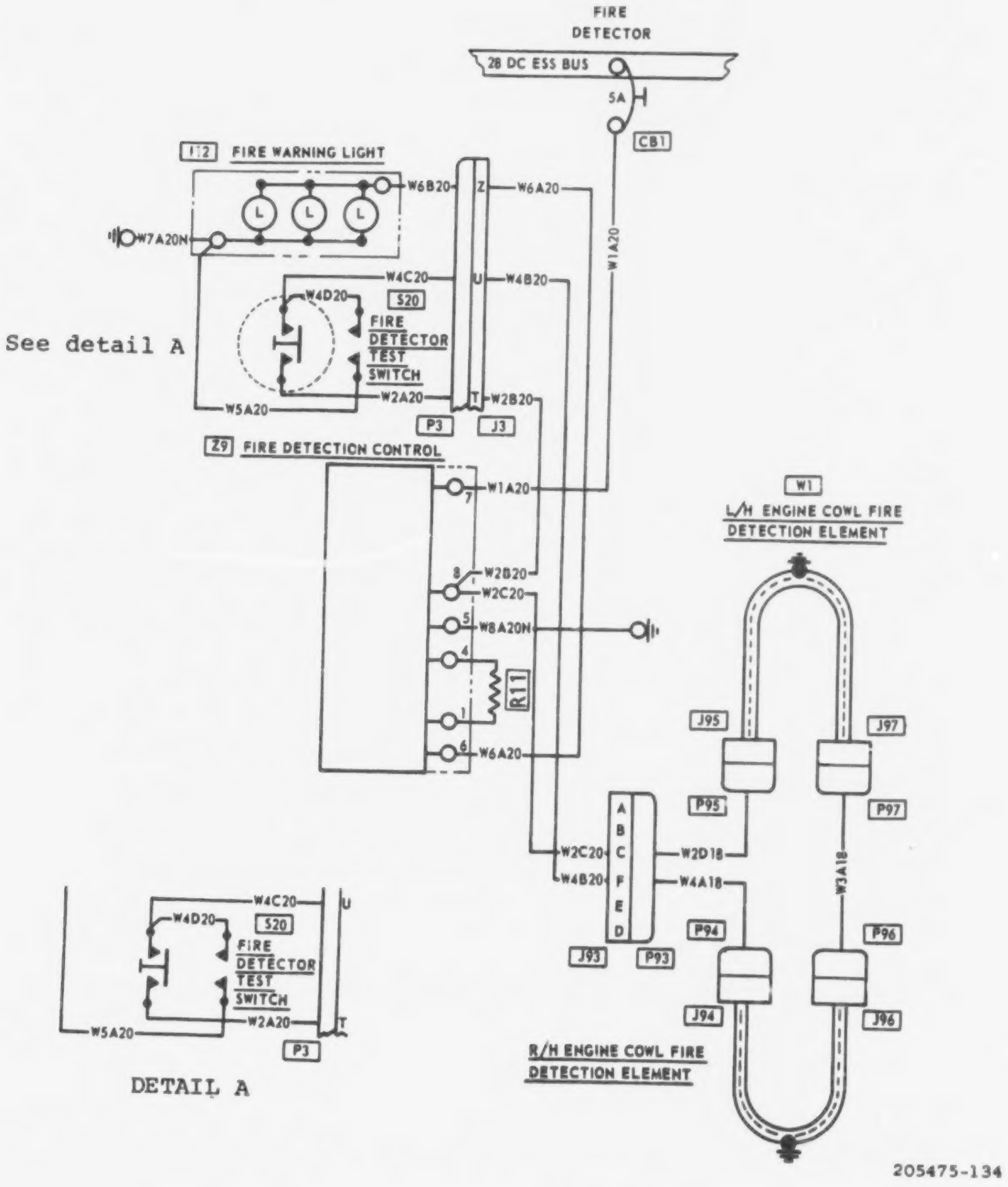

FIRE DETECTOR
28 DC ESS BUS
5A
CB1
I12 FIRE WARNING LIGHT
L
L
L
W6B20
Z
W6A20
W7A20N
W1A20
W4C20
U
W4B20
W4D20
S20
FIRE DETECTOR TEST SWITCH
See detail A
W2A20
T
W2B20
W5A20
P3
J3
Z9 FIRE DETECTION CONTROL
7
W1A20
8
W2B20
W2C20
5
W8A20N
4
R11
1
6
W6A20
W1
L/H ENGINE COWL FIRE DETECTION ELEMENT
J95
J97
P95
P97
A
B
C
F
E
D
W2C20
W4B20
W2D18
W4A18
W3A18
J93
P93
P94
P96
J94
J96
R/H ENGINE COWL FIRE DETECTION ELEMENT
W4C20
U
W4D20
S20
FIRE DETECTOR TEST SWITCH
W2A20
T
W5A20
P3
DETAIL A
205475-134

Figure 40. Fire detector system

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## X, Y, Z

This manual is published for the use of all concerned.

By Order of the Secretary of the Army:

**CARL E. VUONO**
*General, United States Army*
*Chief of Staff*

Official:

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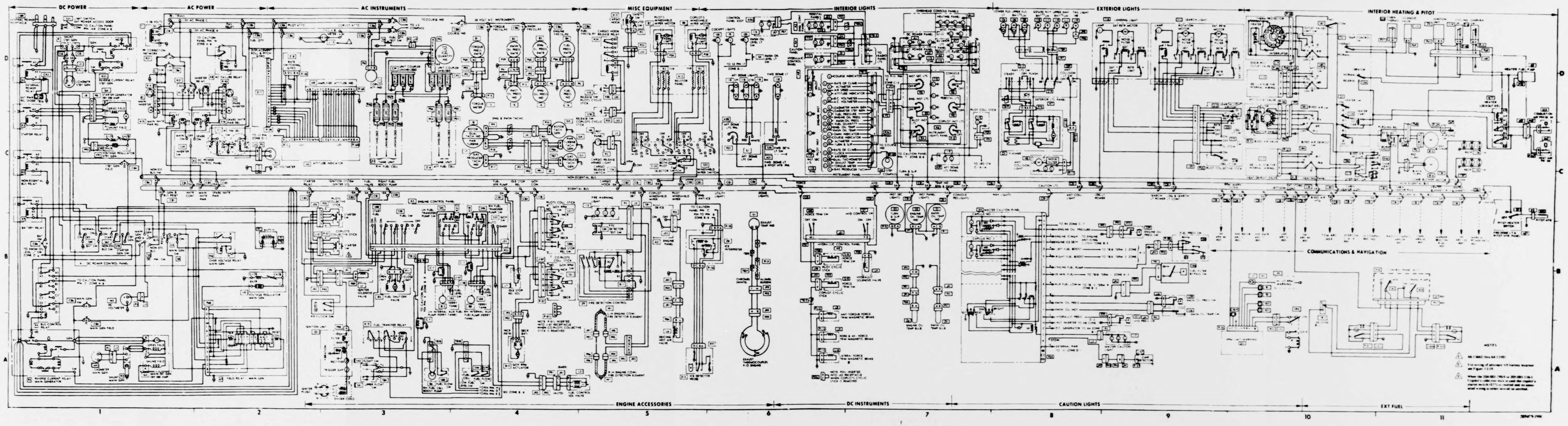
DC POWER
AC POWER
AC INSTRUMENTS
MISC EQUIPMENT
INTERIOR LIGHTS
EXTERIOR LIGHTS
INTERIOR HEATING & PITOT
ENGINE ACCESSORIES
DC INSTRUMENTS
CAUTION LIGHTS
EXT FUEL
COMMUNICATIONS & NAVIGATION
NON ESSENTIAL BUS
ESSENTIAL BUS
NOTES
D
C
B
A
1
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5
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Figure F-3. Electrical Schematic—UH-1H (64-13492 through 64-13901)

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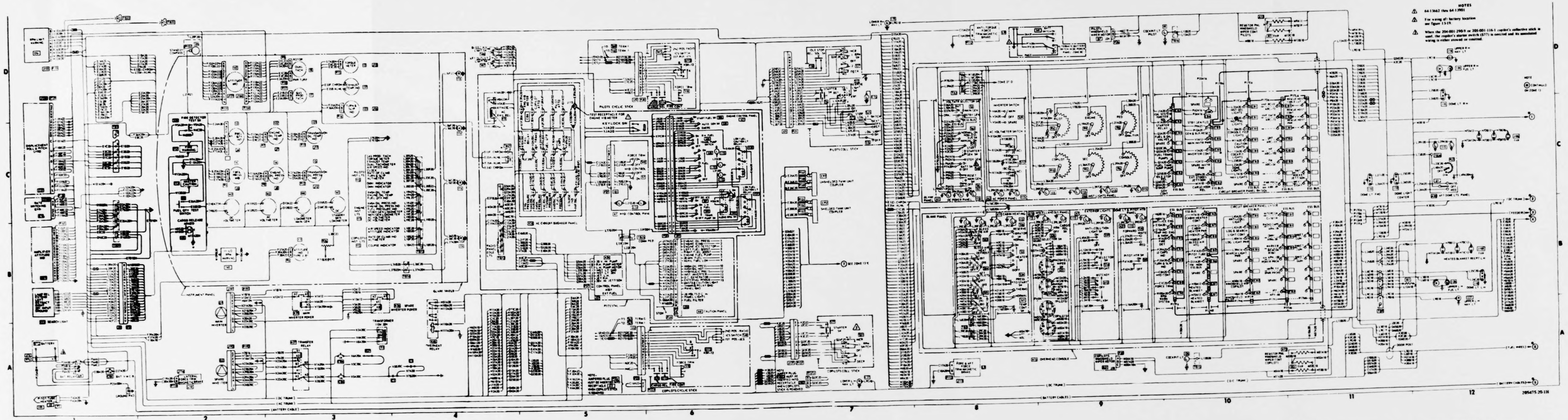

NOTES

△1 64-13662 thru 64-13901

△2 For wiring aft battery location see figure 13-19.

△3 When the 204-001-290-9 or 205-001-116-1 copilot's collective stick is used, the copilot's starter switch (S77) is omitted and its associated wiring is either stowed or omitted.

NOTE

◉ CONTINUED ON ZONE 13

Figure F-4. Electrical wiring diagram—UH-1H (64-13492 through 64-13901) (Sheet 1 of 2)

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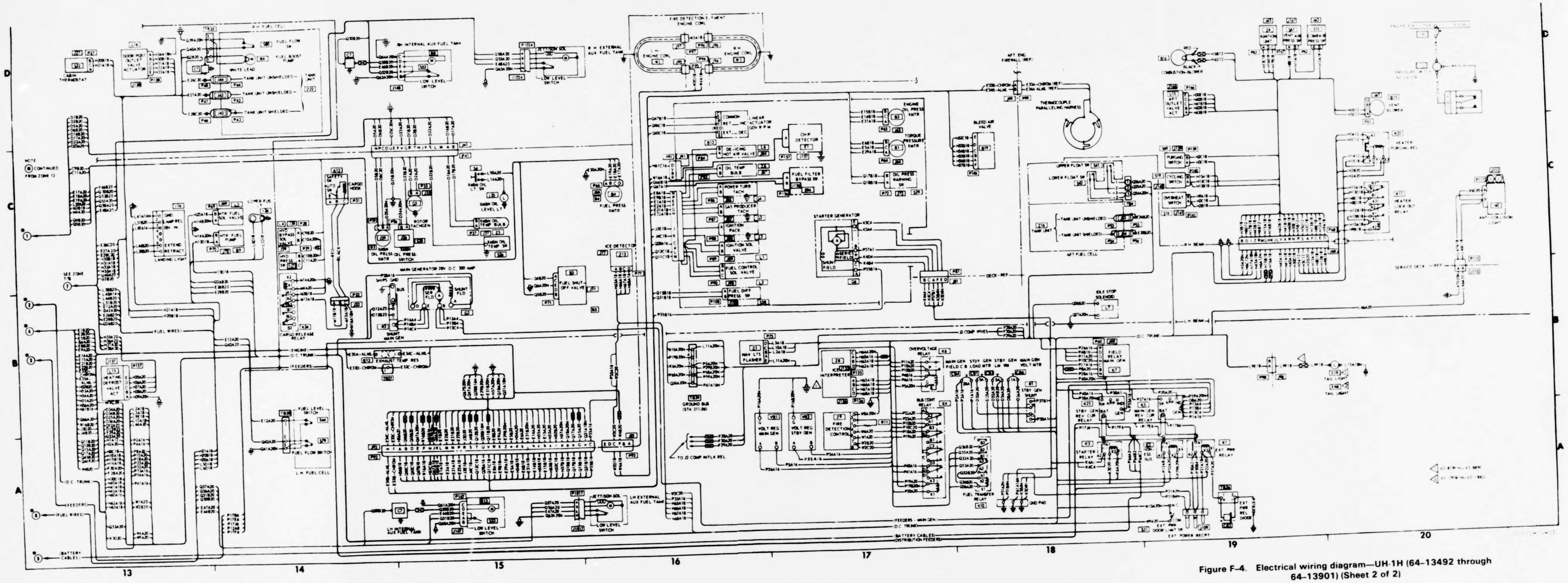
D
C
B
A
13
14
15
16
17
18
19
20
CABIN THERMOSTAT
DOOR POST OUTLET VALVE ACTUATOR
R H FUEL CELL
FUEL FLOW SW
FUEL BOOST PUMP
WHITE LEAD
TANK UNIT UNSHIELDED
TANK UNIT SHIELDED
TANK UNIT
R H INTERNAL AUX FUEL TANK
LOW LEVEL SWITCH
JETTISON SOL
R H EXTERNAL AUX FUEL TANK
NOTE
CONTINUED FROM ZONE 12
SEE ZONE 7/8
LANDING LIGHT
HTR FUEL SOL VALVE
HTR FUEL PUMP
LOWER FUS LT
HYD BYPASS SOL VALVE
HYD PRESS SW
CARGO RELEASE RELAY
SAFETY SW
AUTO SW
CARGO HOOK
XMSN OIL PRESS XMTR
XMSN OIL PRESS SWITCH
ROTOR TACHGEN
XMSN OIL LT SW
XMSN OIL LEVEL LT
XMSN OIL TEMP BULB
XMSN OIL TEMP SW
FUEL PRESS XMTR
MAIN GENERATOR 28V D C 300 AMP
SHIPS GND
BUS
SER FLD
SHUNT FLD
SHUNT MAIN GEN
FUEL SHUT-OFF VALVE
ICE DETECTOR
(FUEL WIRES)
(ENGINE)
(FEEDERS)
D C TRUNK
BATTERY CABLES
FIRE DETECTION ELEMENT
ENGINE COMPT
AFT ENG FIREWALL (REF)
THERMOCOUPLE PARALLELING HARNESS
LINEAR ACTUATOR GOV R P M
CHIP DETECTOR
ENGINE OIL PRESS XMTR
TORQUE PRESSURE XMTR
BLEED AIR VALVE
DE-ICING HOT AIR VALVE
OIL TEMP BULB
FUEL FILTER BYPASS SW
POWER TURB TACH
OIL PRESS WARNING SW
GAS PRODUCER TACH
IGNITION PACK
IGNITION SOL VALVE
FUEL CONTROL SOL VALVE
FUEL DIFF PRESS SW
STARTER GENERATOR
FIELD
IDLE STOP SOLENOID
DECK - REF
LH FUEL CELL
FUEL LEVEL SWITCH
FUEL FLOW SWITCH
EXHAUST TEMP RES
LH INTERNAL AUX FUEL TANK
LH EXTERNAL AUX FUEL TANK
GROUND BUS (STA 311.86)
TO J2 COMP INTLK REL
INTERPRETER
FLASHER
VOLT REG MAIN GEN
VOLT REG STBY GEN
FIRE DETECTION CONTROL
OVERVOLTAGE RELAY
BUS CONT RELAY
FUEL TRANSFER RELAY
FIELD RELAY MAIN GEN
STBY GEN REV CUR RELAY
STARTER RELAY
EXT PWR DOOR LIMIT SW
EXT POWER RECPT
EXT PWR REL DIODE
UPPER FLOAT SW
LOWER FLOAT SW
AFT FUEL CELL
OVERHEAT SWITCH
CYCLING SWITCH
TURBINE SWITCH
COMBUSTION BLOWER
VENT BLOWER
HEATER IGNITION UNIT
HEATER LOCK OUT RELAY
ANTI COLLISION LIGHT
TAIL LIGHT
SERVICE DECK - (REF)
FEEDERS - MAIN GEN
D C TRUNK
DISTRIBUTION FEEDERS

Figure F-4. Electrical wiring diagram—UH-1H (64-13492 through 64-13901) (Sheet 2 of 2)

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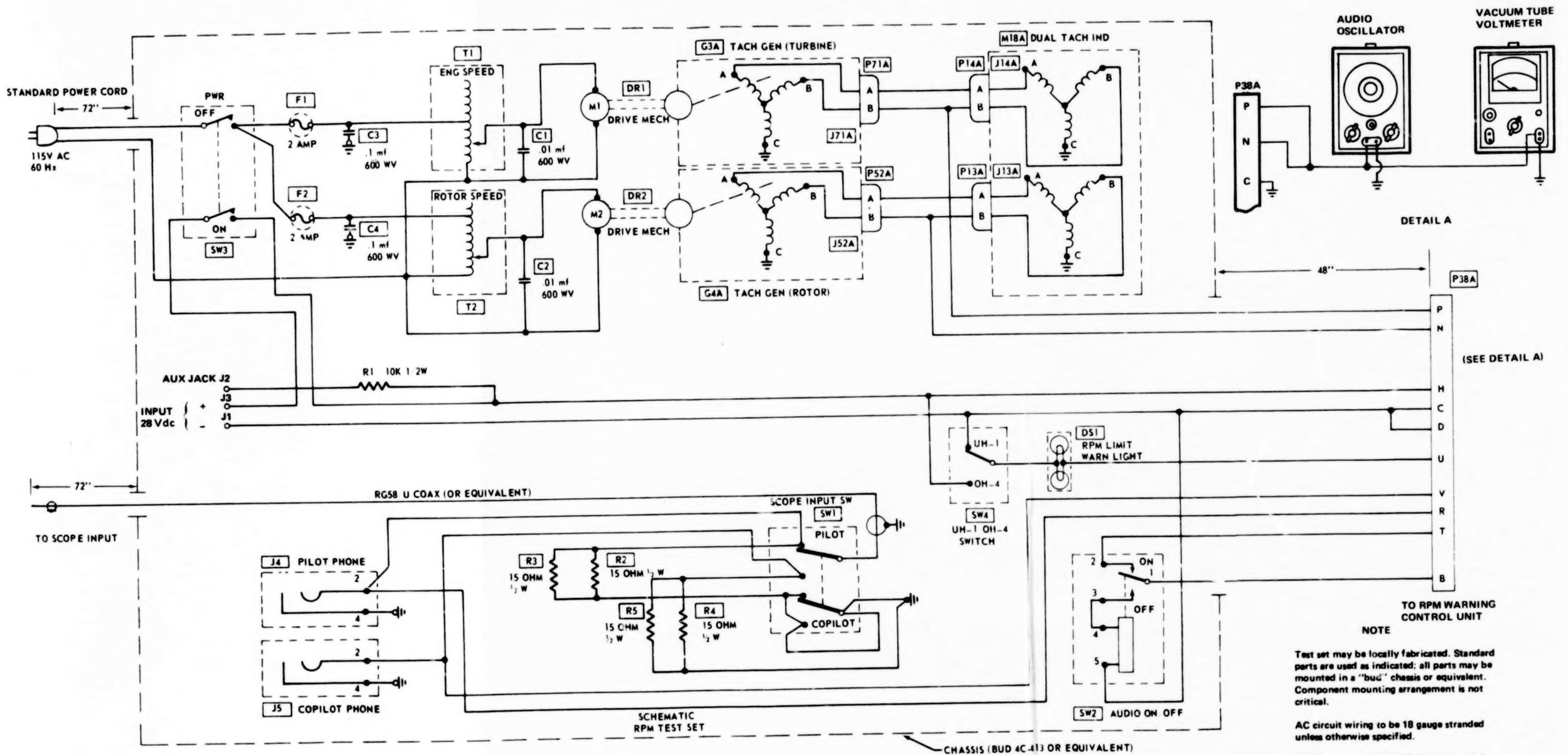
STANDARD POWER CORD
72"
115V AC
60 Hz
PWR
OFF
ON
SW3
F1
2 AMP
F2
2 AMP
C3
.1 mf
600 WV
C4
.1 mf
600 WV
T1
ENG SPEED
ROTOR SPEED
T2
C1
.01 mf
600 WV
C2
.01 mf
600 WV
M1
M2
DR1
DR2
DRIVE MECH
DRIVE MECH
G3A TACH GEN (TURBINE)
G4A TACH GEN (ROTOR)
P71A
J71A
P52A
J52A
P14A
J14A
P13A
J13A
M18A DUAL TACH IND
A
B
C
P38A
P
N
C
AUDIO OSCILLATOR
VACUUM TUBE VOLTMETER
DETAIL A
48"
(SEE DETAIL A)
P
N
H
C
D
U
V
R
T
B
TO RPM WARNING CONTROL UNIT
AUX JACK J2
R1 10K 1 2W
INPUT 28 Vdc
J3
J1
DS1
RPM LIMIT WARN LIGHT
UH-1
OH-4
SW4
UH-1 OH-4 SWITCH
72"
RG58 U COAX (OR EQUIVALENT)
TO SCOPE INPUT
SCOPE INPUT SW
SW1
PILOT
COPILOT
J4 PILOT PHONE
J5 COPILOT PHONE
R3
15 OHM ½ W
R2
15 OHM ½ W
R5
15 OHM ½ W
R4
15 OHM ½ W
SW2 AUDIO ON OFF
ON
OFF
SCHEMATIC RPM TEST SET
CHASSIS (BUD 4C-413 OR EQUIVALENT)

| FREQ HZ | VRMS | ENG RPM | ROTOR RPM |
|---|---|---|---|
| 66.5 | 19.5 | 6200 | 305 |
| 69.0 | 20.0 | 6400 | 315 |
| 73.5 | 22.0 | 6800 | 334 |
| 76.0 | 22.5 | 7000 | – |

| ID CODE | NOMENCLATURE | PART NO. |
|---|---|---|
| C1, C2 | Line Filter .01 mf. 600 WV | (Non Polarized) |
| C3, C4 | Line Filter .1 mf. 600 WV | (Non Polarized) |
| DR1, DR2 | Rubber Flex Tube | Rubber Hose 1/4" I.D. |
| DS1 | Korry Light (033-0861-001) | (Bell 205-074-026-1) |
| F1, F2 | Fuse Holder | HK[illegible] |
| G3A, | Tach Generator (MIL-G26611) | Type GEU-7/A |
| G4A | Tach Generator (MIL-G26611) | Type GEU-7/A |
| J1, J2, J3 | Banana Jack | Standard |
| J4, J5 | Phone Jack | 092 A/U |
| M1, M2 | Tach Gen Drive Motor - Dayton Mod 2M037 - Ball Bearing 1/4" Shaft, 1/10 HP, 8000 RPM, 115Vac, 60 Hz | |
| M18A | Dual Tach Indicator - GE 8DJ67FBC Sub 1 | (Bell 204-070-055-1) |
| P13A | Plug, Dual Tach Indicator | MS3106R14S-7S |
| P14A | Plug, Dual Tach Indicator | MS3106R14S-7S |
| P38A | Plug, Eng RPM Warning Control | MS3126F14-19S |
| P52A | Plug, Tach Generator | MS3108R12S-3S |
| P71A | Plug, Tach Generator | MS3108R12S-3S |
| R1 | Resistor, 10K OHM 1/2W Carbon | (Tol. 5%) |
| R2, R3 | | |
| R4, R5 | Resistor, 15 OHM 1/2W Carbon | (Tol. 5%) |
| SW1 | Switch, Scope Input | MS24659-23G |
| SW2 | Swtich, Audio On/Off (Micro) | 5 ET1-S |
| SW3 | Switch, Power On6Off | MS35059-22 |
| T1, T2 | Speed Control - Power Stat, Superior Electric Co. (0-140Vac, 60 Hz) | Type 10B |

**NOTE**

**Test set may be locally fabricated. Standard parts are used as indicated; all parts may be mounted in a "bud" chassis or equivalent. Component mounting arrangement is not critical.**

**AC circuit wiring to be 18 gauge stranded unless otherwise specified.**

**DC circuit wiring to be 22 gauge stranded unless otherwise specified.**

205074-1004

Figure F-5. Rpm limit warning test set schematic

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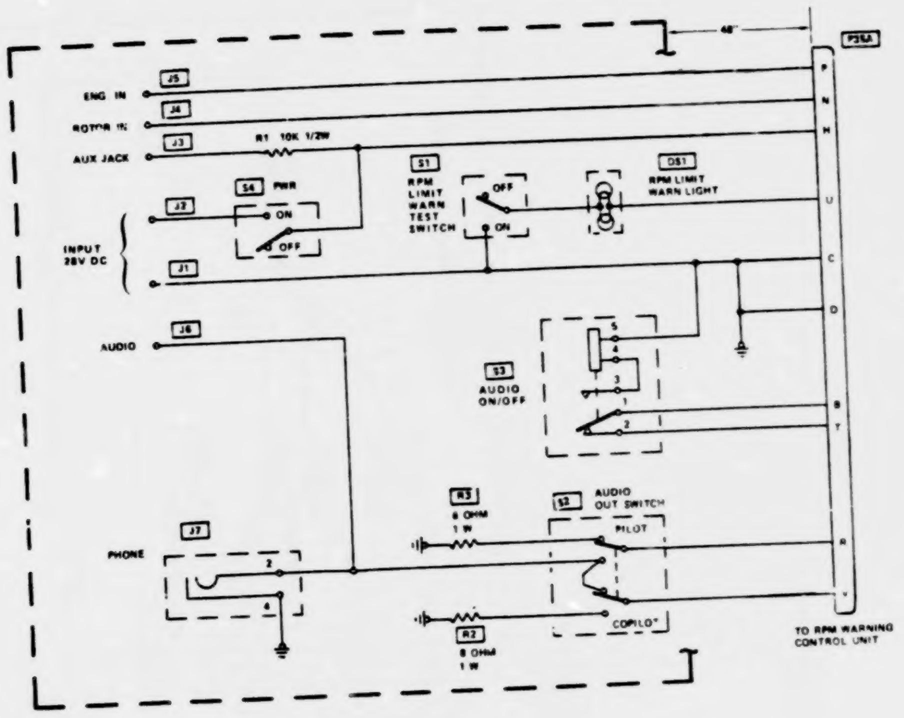
48"
P38A
J5
ENG IN
J4
ROTOR IN
J3
AUX JACK
R1 10K 1/2W
S1
RPM LIMIT WARN TEST SWITCH
OFF
ON
DS1
RPM LIMIT WARN LIGHT
J2
S4 PWR
ON
OFF
INPUT 28V DC
J1
J6
AUDIO
S3
AUDIO ON/OFF
5
4
3
1
2
R3
8 OHM 1 W
S2
AUDIO OUT SWITCH
PILOT
COPILOT
J7
PHONE
2
4
R2
8 OHM 1 W
P
N
H
U
C
D
B
T
R
V
TO RPM WARNING CONTROL UNIT

| ID CODE | NOMENCLATURE | PART NO |
|---|---|---|
| DS1 | LIGHT, RPM LIMIT WARN | 205-074-028-1 |
| J1, J2, J3<br>J4, J5, J6 | JACK, BANANA | STANDARD |
| J7 | JACK, PHONE | 092 A/U |
| P38A | CONNECTOR, ENGINE RPM LIMIT WARNING | MS3126F14-19S |
| R1 | RESISTOR, 10K OHMS, 1/2 W | (5% TOL) |
| R2, R3 | RESISTOR, 8 OHMS, 1 W | (5% TOL) |
| S1 | SWITCH, RPM LIMIT WARN TEST | MS27787-30 |
| S2 | SWITCH, AUDIO OUT | MS24659-23G |
| S3 | SWITCH, AUDIO ON-OFF | 5 ET1 S<br>(MICRO SWITCH) |
| S4 | SWITCH, PWR | MS24659-23G |
| — | CHASSIS | |

NOTES

1. TEST SET MAY BE LOCALLY FABRICATED. STANDARD PARTS ARE USED AS INDICATED. ALL PARTS MAY BE MOUNTED IN A STANDARD CHASSIS OR EQUIVALENT.
2. COMPONENT MOUNTING ARRANGEMENT IS NOT CRITICAL.
3. ALL WIRING TO BE 22 GAUGE STANDARD UNLESS OTHERWISE SPECIFIED.

205074-2001

Figure F-6. Rpm limit warning test set schematic—BHT Model 205-074-033-103

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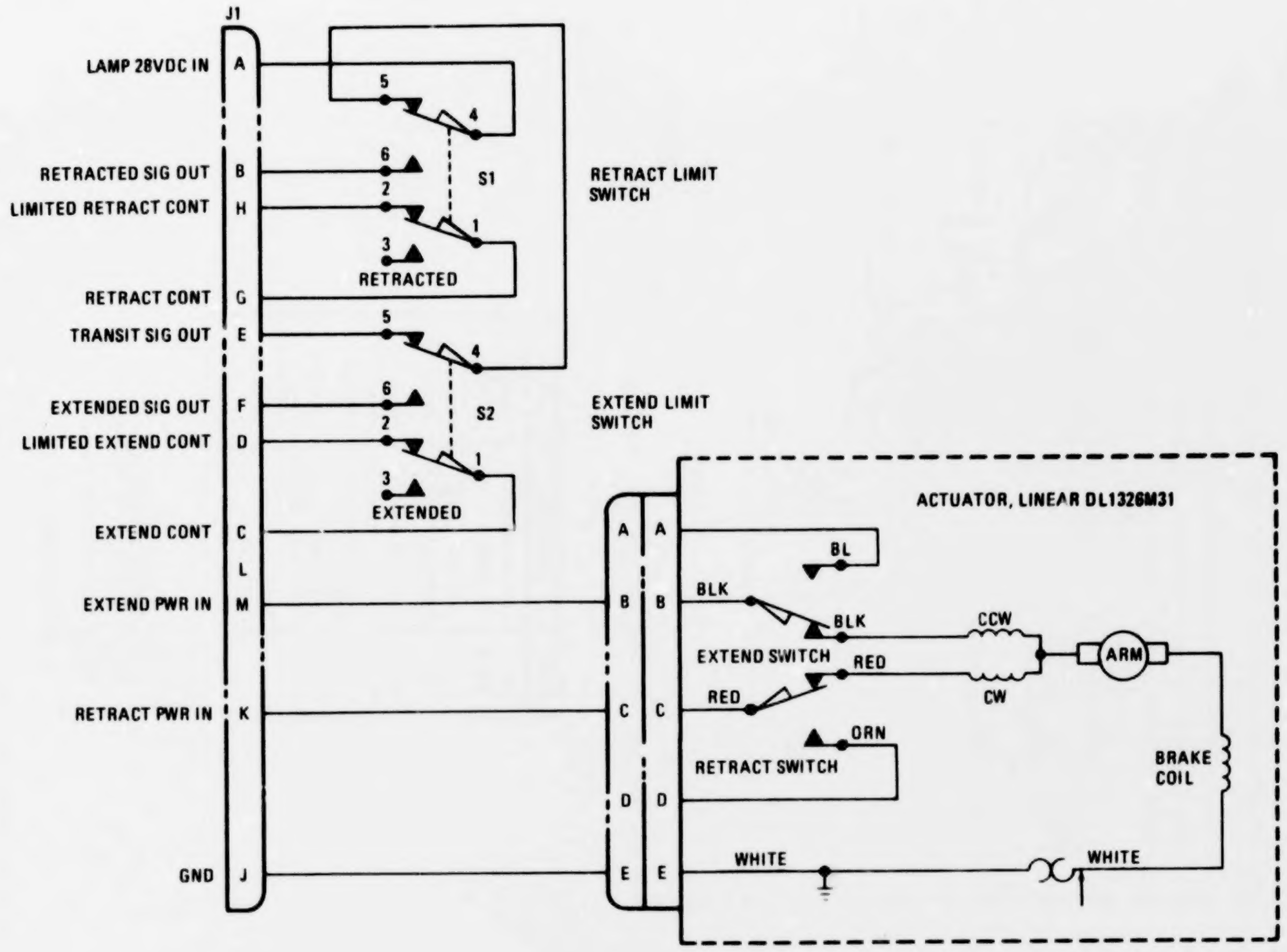
J1
LAMP 28VDC IN
RETRACTED SIG OUT
LIMITED RETRACT CONT
RETRACT CONT
TRANSIT SIG OUT
EXTENDED SIG OUT
LIMITED EXTEND CONT
EXTEND CONT
EXTEND PWR IN
RETRACT PWR IN
GND
A
B
H
G
E
F
D
C
L
M
K
J
5
4
6
2
1
3
S1
RETRACTED
RETRACT LIMIT SWITCH
S2
EXTENDED
EXTEND LIMIT SWITCH
ACTUATOR, LINEAR DL1326M31
BL
BLK
EXTEND SWITCH
RED
RETRACT SWITCH
ORN
CCW
CW
ARM
BRAKE COIL
WHITE

Figure F-7. Mission Antennas OE-201/ARQ-33 and OE-202/ARQ-33 Schematic Diagram, EH-1H

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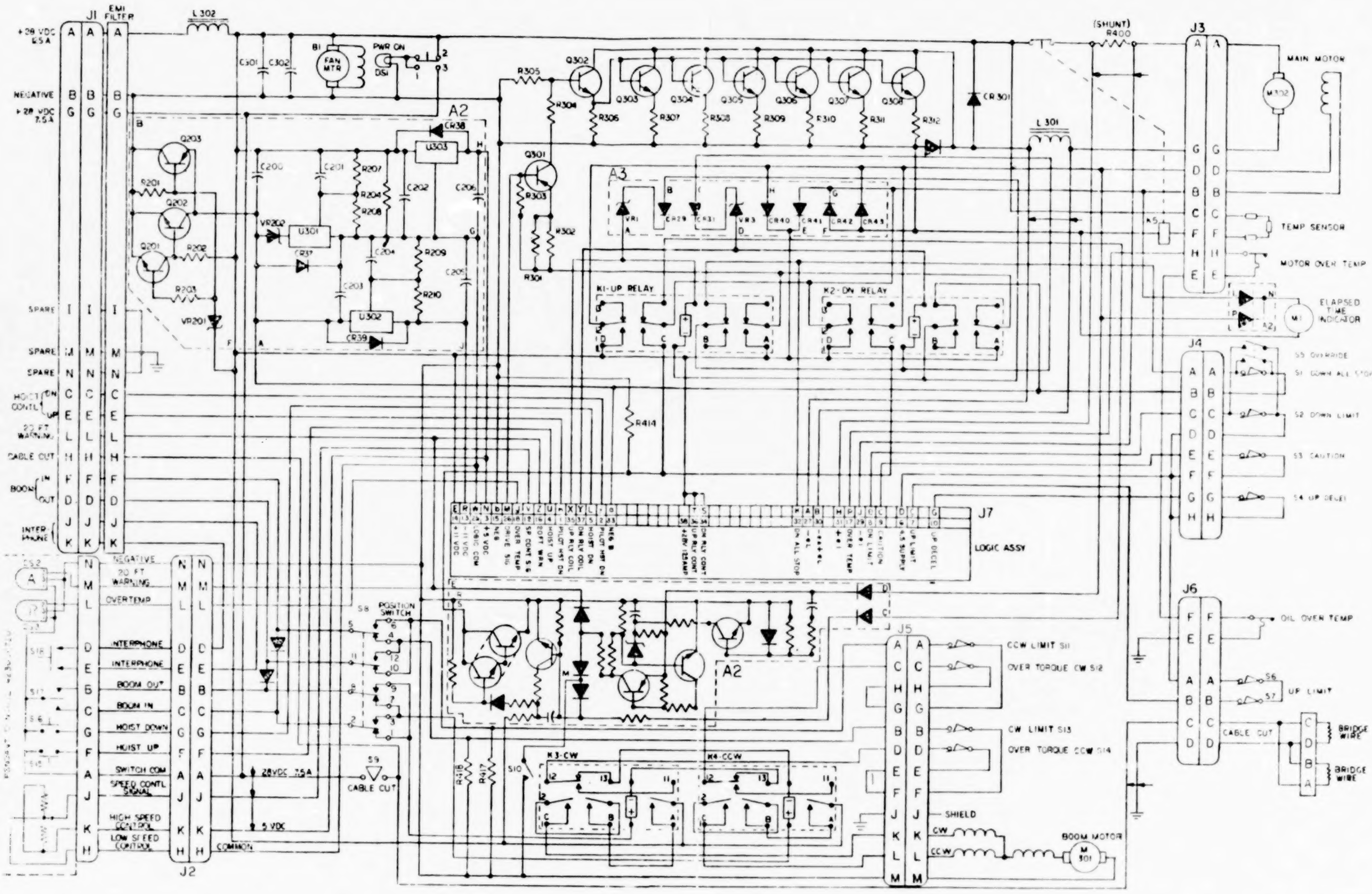
+28 VDC 6.5 A
NEGATIVE
+28 VDC 7.5 A
J1
EMI FILTER
L 302
C301
C302
B1
FAN MTR
PWR ON
DS1
A2
Q203
R201
Q202
Q201
R202
R203
VR201
VR202
U301
CR37
C200
C201
R207
R204
R208
C202
U303
CR38
C206
C204
C203
R209
R210
C205
U302
CR39
SPARE
HOIST CONTL ON
UP
20 FT WARNING
CABLE CUT
BOOM IN
OUT
INTER-PHONE
R305
Q302
R304
R306
Q301
R303
R302
R301
Q303
R307
Q304
R308
Q305
R309
Q306
R310
Q307
R311
Q308
R312
A3
K1-UP RELAY
K2-DN RELAY
R414
CR301
L 301
(SHUNT) R400
J3
MAIN MOTOR
M302
K5
TEMP SENSOR
MOTOR OVER TEMP
ELAPSED TIME INDICATOR
M1
J4
S5 OVERRIDE
S1 DOWN ALL STOP
S2 DOWN LIMIT
S3 CAUTION
S4 UP DECEL
J7
LOGIC ASSY
+11 VDC
-11 VDC
LOGIC COM
+5 VDC
NEG
DRIVE SIG
OVER TEMP
SP CONT S.G
20FT WRN
HOIST UP
PILOT HST DN
DN RLY COIL
UP RLY COIL
HOIST DN
PILOT HST DN
NEG B
+5 SUPPLY
UP LIMIT
UP DECEL
J6
OIL OVER TEMP
S6
S7
UP LIMIT
CABLE CUT
BRIDGE WIRE
J5
CCW LIMIT S11
OVER TORQUE CW S12
CW LIMIT S13
OVER TORQUE CCW S14
SHIELD
CW
CCW
BOOM MOTOR
M 301
K3-CW
K4-CCW
S10
R418
R417
S9
CABLE CUT
S8
POSITION SWITCH
J2
NEGATIVE
20 FT WARNING
OVERTEMP
INTERPHONE
INTERPHONE
BOOM OUT
BOOM IN
HOIST DOWN
HOIST UP
SWITCH COM
SPEED CONTL SIGNAL
HIGH SPEED CONTROL
LOW SPEED CONTROL
COMMON
28VDC 7.5A
5 VDC
DS2
DS3
S16
S17

Figure F-8. High Performance Hoist System

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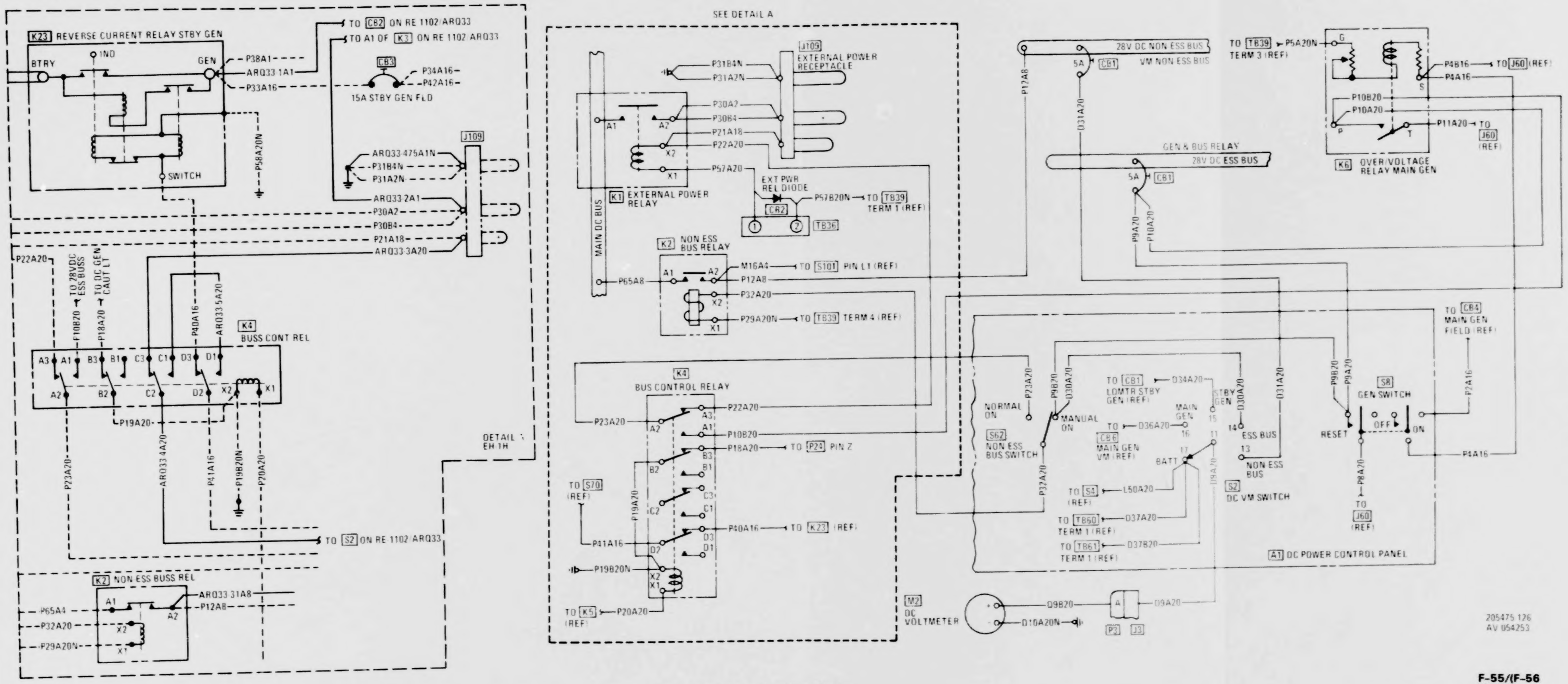
K23 REVERSE CURRENT RELAY STBY GEN
BTRY
IND
GEN
SWITCH
P38A1
ARQ33 1A1
P33A16
P58A20N
TO CB2 ON RE 1102/ARQ33
TO A1 OF K3 ON RE 1102/ARQ33
CB3
P34A16
P42A16
15A STBY GEN FLD
J109
ARQ33 475A1N
P31B4N
P31A2N
ARQ33 2A1
P30A2
P30B4
P21A18
ARQ33 3A20
P22A20
TO 28VDC ESS BUSS
TO DC GEN CAUT LT
P10B20
P18A20
P40A16
ARQ33 5A20
K4 BUSS CONT REL
P19A20
P23A20
ARQ33 4A20
P41A16
P19B20N
P29A20
TO S2 ON RE 1102/ARQ33
DETAIL A EH 1H
K2 NON ESS BUSS REL
P65A4
P32A20
P29A20N
ARQ33 31A8
P12A8
SEE DETAIL A
J109 EXTERNAL POWER RECEPTACLE
K1 EXTERNAL POWER RELAY
P57A20
EXT PWR REL DIODE
CR2
P57B20N
TO TB39 TERM T (REF)
TB36
MAIN DC BUS
K2 NON ESS BUS RELAY
P65A8
M16A4
TO S101 PIN L1 (REF)
TO TB39 TERM 4 (REF)
K4 BUS CONTROL RELAY
TO P75 PIN Z
TO S70 (REF)
P11A16
TO K23 (REF)
TO K5 (REF)
P20A20
M2 DC VOLTMETER
D9B20
D10A20N
D9A20
P2
J3
28V DC NON ESS BUS
VM NON ESS BUS
5A
CB1
P12A8
D31A20
GEN & BUS RELAY
28V DC ESS BUS
P9A20
P10A20
TO TB39 TERM 3 (REF)
P5A20N
P4B16
P4A16
TO J60 (REF)
P10B20
P11A20
K6 OVERVOLTAGE RELAY MAIN GEN
TO CB4 MAIN GEN FIELD (REF)
S8 GEN SWITCH
RESET
OFF
ON
P8A20
TO J60 (REF)
P7A16
NORMAL ON
MANUAL ON
S62 NON ESS BUS SWITCH
TO CB1 LDMTR STBY GEN (REF)
D34A20
TO CB6 MAIN GEN VM (REF)
D36A20
MAIN GEN
STBY GEN
BATT
ESS BUS
NON ESS BUS
S2 DC VM SWITCH
TO S5 (REF)
L50A20
TO TB60 TERM 1 (REF)
D37A20
TO TB61 TERM 1 (REF)
D37B20
A1 DC POWER CONTROL PANEL
205475 126
AV 054253

Figure F-19. External Power System

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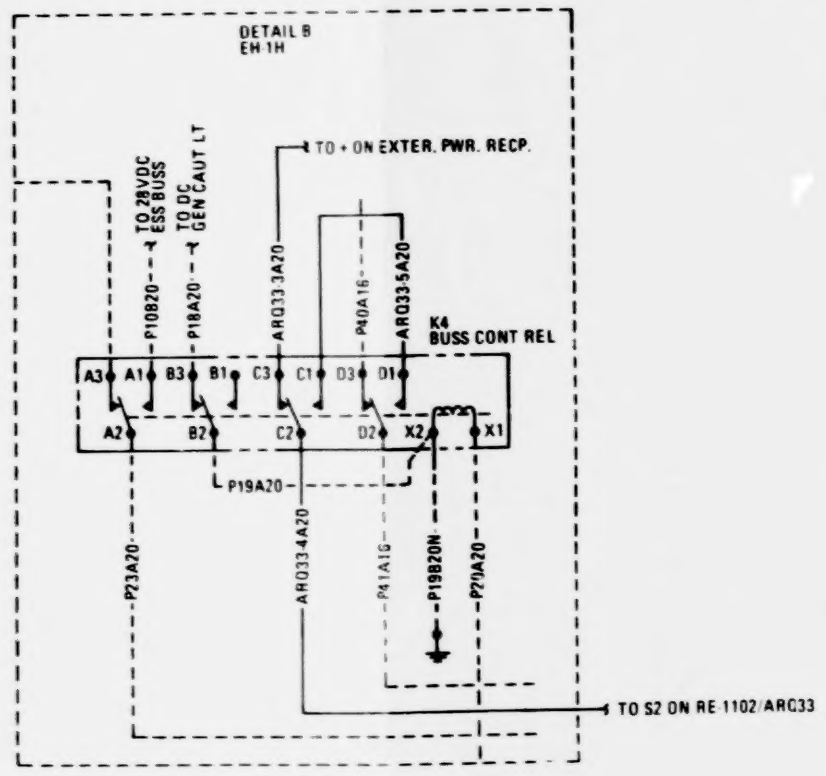
**NOTE**

1. ON EH-1H HELICOPTERS
2. IF HELICOPTER IS A 1966 MODEL OR SUBSEQUENT AND THE AIRCRAFT HAS A STANDBY GENERATOR FIELD CONTROL RELAY INSTALLED THEN WIRE P-87A16 WILL BE CONNECTED TO TERMINAL F+/A ON THE STANDBY VOLT REG. INSTEAD OF WIRE P-35A16.


DETAIL B
EH-1H
TO + ON EXTER. PWR. RECP.
TO 28VDC ESS BUS
TO DC GEN CAUT LT
K4
BUSS CONT REL
TO S2 ON RE 1102/ARC33

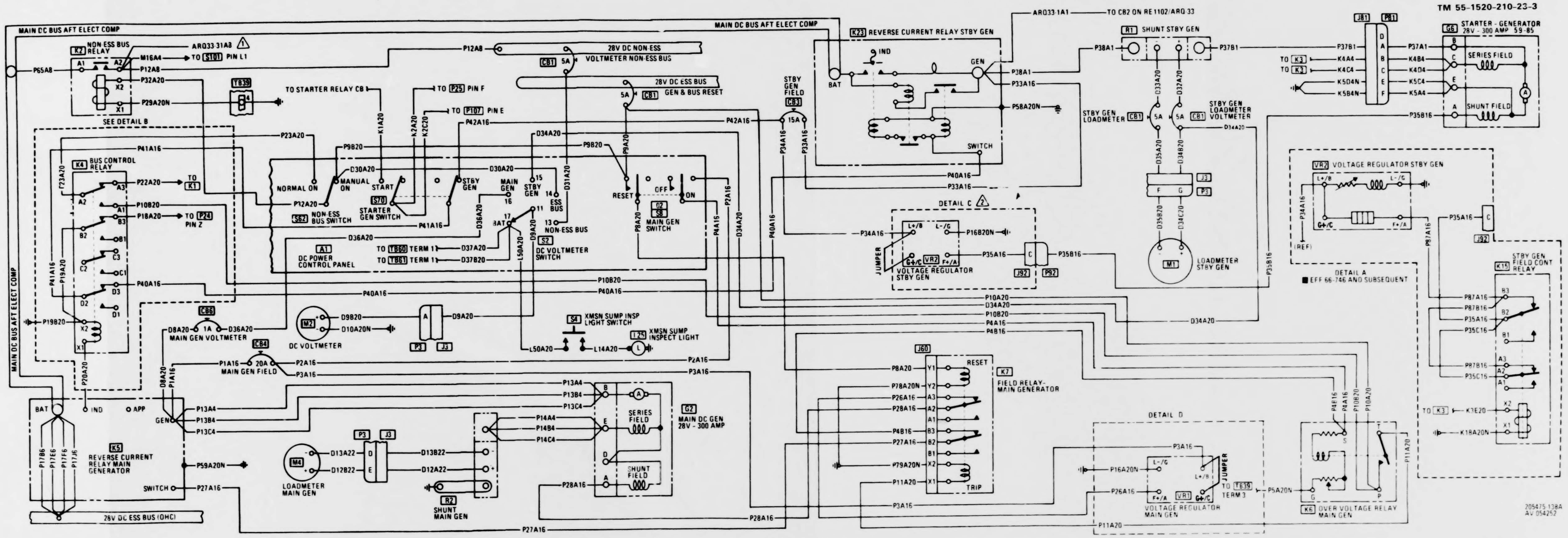

MAIN DC BUS AFT ELECT COMP
K2 NON ESS BUS RELAY
SEE DETAIL B
K4 BUS CONTROL RELAY
TO STARTER RELAY CB
28V DC NON-ESS VOLTMETER NON-ESS BUS
28V DC ESS BUS GEN & BUS RESET
K23 REVERSE CURRENT RELAY STBY GEN
R1 SHUNT STBY GEN
STBY GEN LOADMETER
STBY GEN LOADMETER VOLTMETER
G6 STARTER - GENERATOR 28V - 300 AMP 59-85
SERIES FIELD
SHUNT FIELD
NORMAL ON
MANUAL ON
START
STBY GEN
MAIN GEN
ESS BUS
NON-ESS BUS
S62 NON-ESS BUS SWITCH
S70 STARTER GEN SWITCH
A1 DC POWER CONTROL PANEL
S2 DC VOLTMETER SWITCH
S8 MAIN GEN SWITCH
RESET
OFF
ON
DETAIL C
VR2 VOLTAGE REGULATOR STBY GEN
M1 LOADMETER STBY GEN
VR2 VOLTAGE REGULATOR STBY GEN
DETAIL A
EFF 66-746 AND SUBSEQUENT
K15 STBY GEN FIELD CONT RELAY
M2 DC VOLTMETER
MAIN GEN VOLTMETER
MAIN GEN FIELD
S4 XMSN SUMP INSP LIGHT SWITCH
L25 XMSN SUMP INSPECT LIGHT
K7 FIELD RELAY-MAIN GENERATOR
TRIP
K5 REVERSE CURRENT RELAY MAIN GENERATOR
M4 LOADMETER MAIN GEN
R2 SHUNT MAIN GEN
G2 MAIN DC GEN 28V - 300 AMP
28V DC ESS BUS (OHC)
DETAIL D
VR1 VOLTAGE REGULATOR MAIN GEN
TO TB39 TERM 3
K6 OVER VOLTAGE RELAY MAIN GEN
205475-138A
AV 054252

Figure F-20. Generator and Bus System

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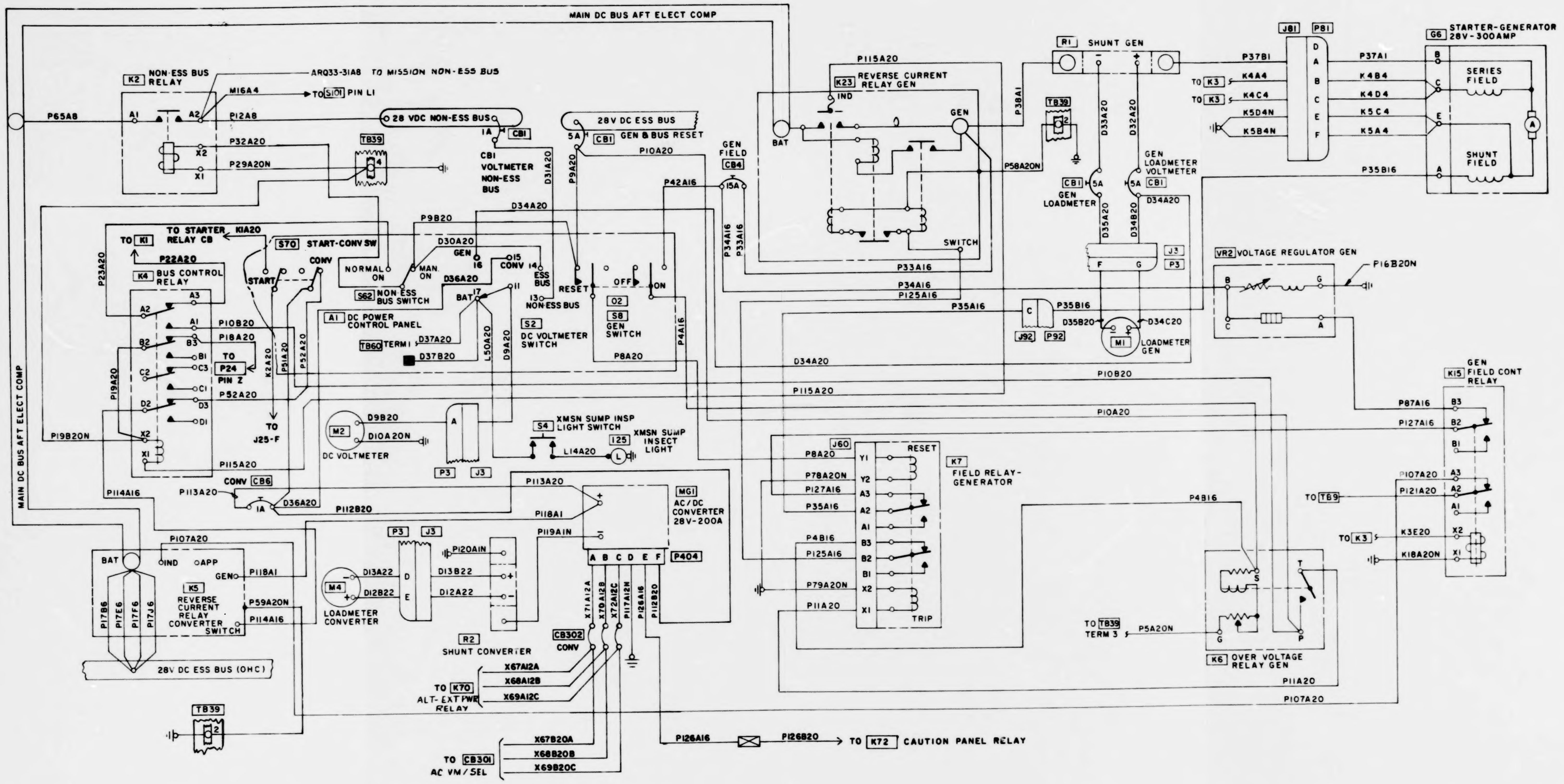
MAIN DC BUS AFT ELECT COMP
K2 NON-ESS BUS RELAY
ARQ33-31A8 TO MISSION NON-ESS BUS
M16A4
TO S101 PIN L1
P65A8
P12A8
28 VDC NON-ESS BUS
CB1
P32A20
P29A20N
TB39
CB1 VOLTMETER NON-ESS BUS
28V DC ESS BUS
CB1 GEN & BUS RESET
P10A20
GEN FIELD CB4
P42A16
D31A20
P9A20
D34A20
P9B20
TO STARTER RELAY CB K1A20
TO K1
S70 START-CONV SW
P22A20
K4 BUS CONTROL RELAY
P23A20
START
CONV
NORMAL ON
MAN ON
D30A20
GEN
D36A20
S62 NON ESS BUS SWITCH
A1 DC POWER CONTROL PANEL
TB60 TERM 1
D37A20
D37B20
L50A20
D9A20
S2 DC VOLTMETER SWITCH
ESS BUS
NON-ESS BUS
BAT
RESET
OFF
ON
O2
S8 GEN SWITCH
P8A20
P4A16
P34A16
P33A16
P10B20
P18A20
TO P24 PIN Z
P52A20
K2A20
P51A20
TO J25-F
P19A20
P19B20N
P115A20
P114A16
CONV CB6
P113A20
D36A20
P112B20
M2 DC VOLTMETER
D9B20
D10A20N
S4 XMSN SUMP INSP LIGHT SWITCH
I25 XMSN SUMP INSECT LIGHT
L14A20
P3 J3
MG1 AC/DC CONVERTER 28V-200A
P118A1
P119A1N
P404
P107A20
BAT
IND
APP
GEN
K5 REVERSE CURRENT RELAY CONVERTER SWITCH
P59A20N
P114A16
P17B6
P17E6
P17F6
P17J6
28V DC ESS BUS (OHC)
TB39
M4 LOADMETER CONVERTER
D13A22
D12B22
D13B22
D12A22
P120A1N
R2 SHUNT CONVERTER
CB302 CONV
X71A12A
X70A12B
X72A12C
P117A12N
P126A16
P112B20
X67A12A
X68A12B
X69A12C
TO K70 ALT-EXT PWR RELAY
X67B20A
X68B20B
X69B20C
TO CB301 AC VM/SEL
P126A16
P126B20
TO K72 CAUTION PANEL RELAY
P115A20
K23 REVERSE CURRENT RELAY GEN
IND
GEN
BAT
SWITCH
P38A1
P58A20N
R1 SHUNT GEN
TB39
D33A20
D32A20
CB1 5A GEN LOADMETER
GEN LOADMETER VOLTMETER CB1
D35A20
D34B20
D34A20
J3 P3
F G
P37B1
J81 P81
TO K3 K4A4
TO K3 K4C4
K5D4N
K5B4N
P37A1
K4B4
K4D4
K5C4
K5A4
P35B16
G6 STARTER-GENERATOR 28V-300AMP
SERIES FIELD
SHUNT FIELD
VR2 VOLTAGE REGULATOR GEN
P16B20N
P33A16
P34A16
P125A16
P35A16
P35B16
D35B20
D34C20
J92 P92
M1 LOADMETER GEN
P10B20
D34A20
P115A20
P10A20
K15 GEN FIELD CONT RELAY
P87A16
P127A16
J60
RESET
K7 FIELD RELAY-GENERATOR
P8A20
P78A20N
P127A16
P35A16
P4B16
P125A16
P79A20N
P11A20
TRIP
P4B16
TO T69
P107A20
P121A20
TO K3 K3E20
K18A20N
TO TB39 TERM 3
P5A20N
K6 OVER VOLTAGE RELAY GEN
P11A20
P107A20

Figure F-20.1 Generator and bus system

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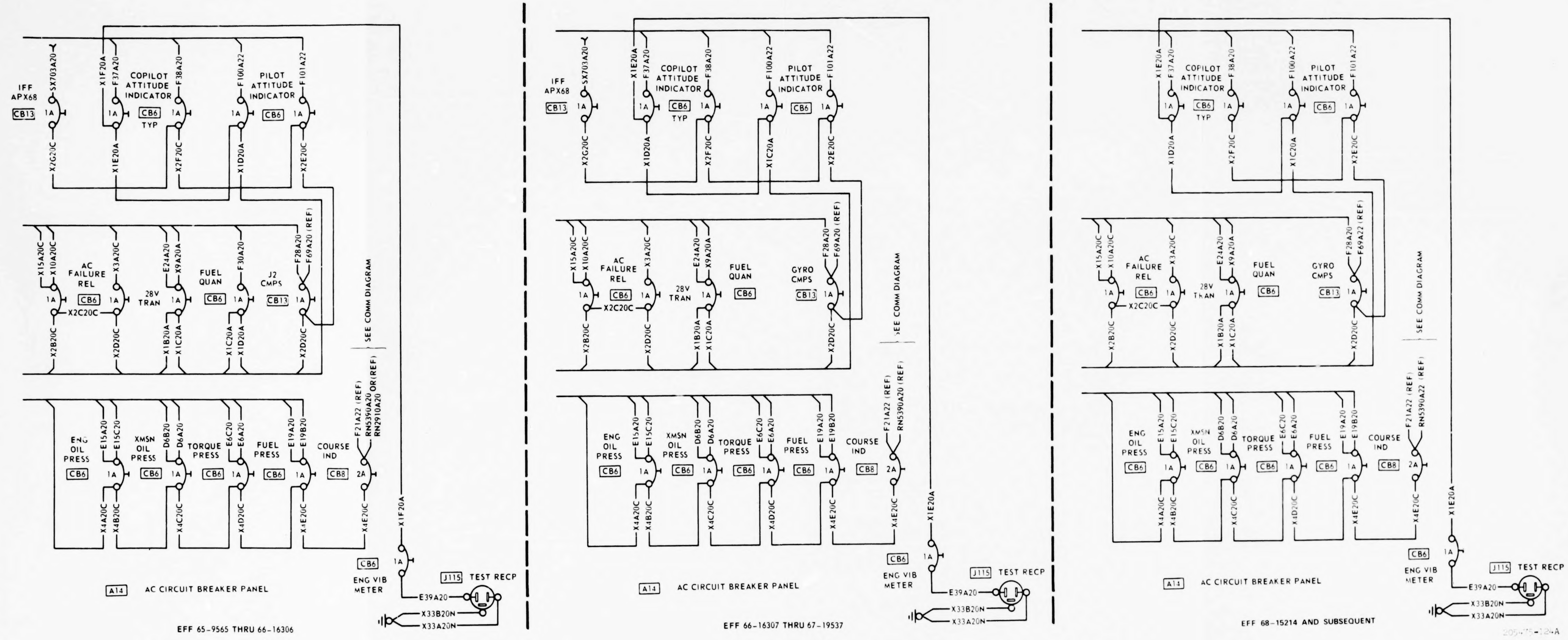
IFF
APX68
CB13
1A
SX703A20
X2G20C
X1F20A
F37A20
COPILOT
ATTITUDE
INDICATOR
CB6
TYP
F38A20
X1E20A
X2F20C
F100A22
PILOT
ATTITUDE
INDICATOR
F101A22
X1D20A
X1C20A
X2E20C
X15A20C
X10A20C
AC
FAILURE
REL
X2C20C
X2B20C
X3A20C
X2D20C
28V
TRAN
E24A20
X9A20A
X1B20A
FUEL
QUAN
F30A20
J2
CMPS
GYRO
CMPS
F28A20
F69A20 (REF)
F69A22 (REF)
SEE COMM DIAGRAM
ENG
OIL
PRESS
E15A20
E15C20
X4A20C
X4B20C
XMSN
OIL
PRESS
D6B20
D6A20
X4C20C
TORQUE
PRESS
E6C20
E6A20
X4D20C
FUEL
PRESS
E19A20
E19B20
X4E20C
COURSE
IND
CB8
2A
F21A22 (REF)
RN5390A20 OR (REF)
RN2910A20
RN5390A20 (REF)
RN5390A22 (REF)
CB6
ENG VIB
METER
J115
TEST RECP
E39A20
X33B20N
X33A20N
A14
AC CIRCUIT BREAKER PANEL
205475-124A

EFF 65-9565 THRU 66-16306

EFF 66-16307 THRU 67-19537

EFF 68-15214 AND SUBSEQUENT

Figure F-21. AC power system (Sheet 2 of 2)

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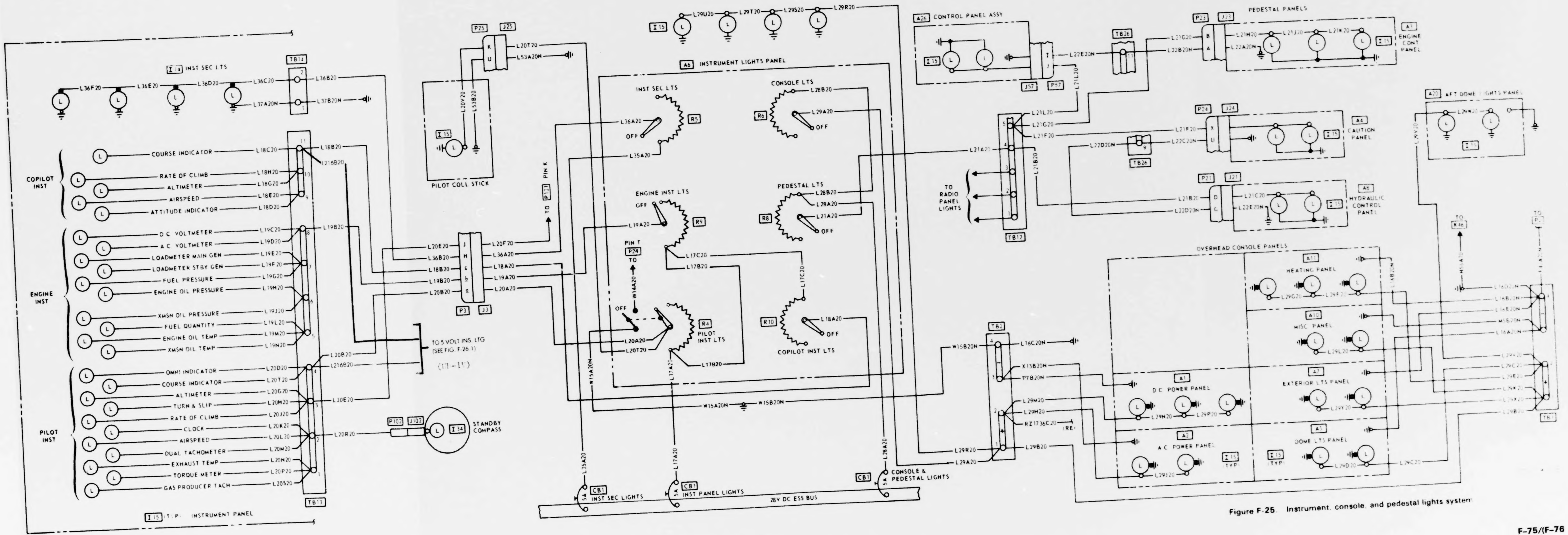
INST SEC LTS
TB14
COPILOT INST
COURSE INDICATOR
RATE OF CLIMB
ALTIMETER
AIRSPEED
ATTITUDE INDICATOR
ENGINE INST
D C VOLTMETER
A C VOLTMETER
LOADMETER MAIN GEN
LOADMETER STBY GEN
FUEL PRESSURE
ENGINE OIL PRESSURE
XMSN OIL PRESSURE
FUEL QUANTITY
ENGINE OIL TEMP
XMSN OIL TEMP
PILOT INST
OMNI INDICATOR
COURSE INDICATOR
ALTIMETER
TURN & SLIP
RATE OF CLIMB
CLOCK
AIRSPEED
DUAL TACHOMETER
EXHAUST TEMP
TORQUE METER
GAS PRODUCER TACH
TB13
INSTRUMENT PANEL
TO 5 VOLT INS. LTG (SEE FIG. F-26.1)
P25
J25
PILOT COLL STICK
P3
J3
TO P131 PIN K
P102
J102
STANDBY COMPASS
A6 INSTRUMENT LIGHTS PANEL
INST SEC LTS
R5
CONSOLE LTS
R6
ENGINE INST LTS
R9
PEDESTAL LTS
R8
PIN T P24 TO
R4 PILOT INST LTS
R10
COPILOT INST LTS
OFF
CB1 INST SEC LIGHTS
CB1 INST PANEL LIGHTS
CB1 CONSOLE & PEDESTAL LIGHTS
28V DC ESS BUS
A26 CONTROL PANEL ASSY
J57
P57
TB26
P23
J23
PEDESTAL PANELS
A1 ENGINE CONT PANEL
P24
J24
A4 CAUTION PANEL
P21
J21
A8 HYDRAULIC CONTROL PANEL
TB12
TO RADIO PANEL LIGHTS
A20 AFT DOME LIGHTS PANEL
OVERHEAD CONSOLE PANELS
A11 HEATING PANEL
A10 MISC PANEL
A3 D C POWER PANEL
A7 EXTERIOR LTS PANEL
A2 A C POWER PANEL
A5 DOME LTS PANEL
TB2
TB1

Figure F-25. Instrument, console, and pedestal lights system

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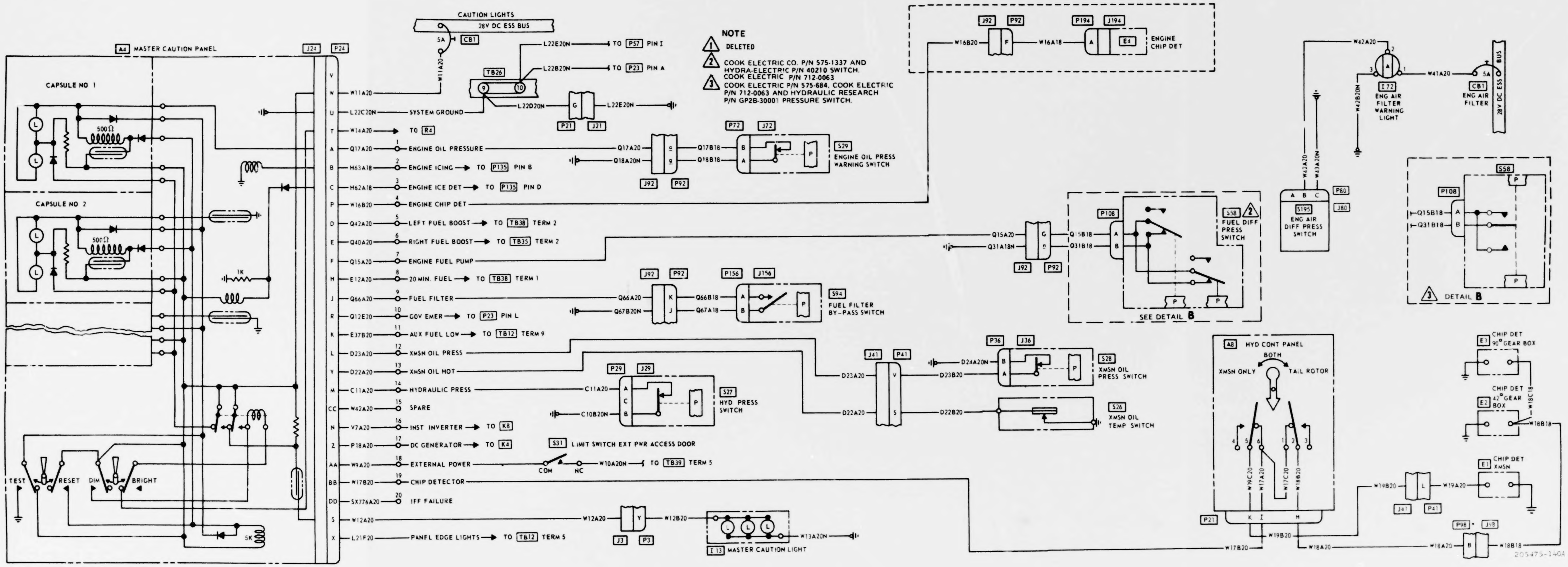
CAUTION LIGHTS
28V DC ESS BUS
5A
CB1
W11A20
A4 MASTER CAUTION PANEL
J24
P24
CAPSULE NO 1
CAPSULE NO 2
500Ω
1K
5K
TEST
RESET
DIM
BRIGHT
TB26
L22E20N — TO P57 PIN I
L22B20N — TO P23 PIN A
L22D20N
L22E20N
P21
J21
V
W — W11A20
U — L22C20N — SYSTEM GROUND
T — W14A20 → TO R4
A — Q17A20 — 1 — ENGINE OIL PRESSURE
B — H63A18 — 2 — ENGINE ICING → TO P135 PIN B
C — H62A18 — 3 — ENGINE ICE DET → TO P135 PIN D
P — W16B20 — 4 — ENGINE CHIP DET
D — Q42A20 — 5 — LEFT FUEL BOOST → TO TB38 TERM 2
E — Q40A20 — 6 — RIGHT FUEL BOOST → TO TB35 TERM 2
F — Q15A20 — 7 — ENGINE FUEL PUMP
H — E12A20 — 8 — 20 MIN. FUEL → TO TB38 TERM 1
J — Q66A20 — 9 — FUEL FILTER
R — Q12E20 — 10 — GOV EMER → TO P23 PIN L
K — E37B20 — 11 — AUX FUEL LOW → TO TB12 TERM 9
L — D23A20 — 12 — XMSN OIL PRESS
Y — D22A20 — 13 — XMSN OIL HOT
M — C11A20 — 14 — HYDRAULIC PRESS
CC — W42A20 — 15 — SPARE
N — V7A20 — 16 — INST INVERTER → TO K8
Z — P18A20 — 17 — DC GENERATOR → TO K4
AA — W9A20 — 18 — EXTERNAL POWER
BB — W17B20 — 19 — CHIP DETECTOR
DD — SX776A20 — 20 — IFF FAILURE
S — W12A20
X — L21F20 — PANEL EDGE LIGHTS → TO TB12 TERM 5
Q17A20
Q18A20N
Q17B18
Q18B18
J92
P92
P72
J72
S29 ENGINE OIL PRESS WARNING SWITCH
Q66A20
Q67B20N
K
J
Q66B18
Q67A18
P156
J156
S94 FUEL FILTER BY-PASS SWITCH
P29
J29
C11A20
C10B20N
S27 HYD PRESS SWITCH
S31 LIMIT SWITCH EXT PWR ACCESS DOOR
COM
NC
W10A20N — TO TB39 TERM 5
W12A20
Y
W12B20
J3
P3
W13A20N
I 13 MASTER CAUTION LIGHT
J92
P92
P194
J194
W16B20
F
W16A18
E4 ENGINE CHIP DET
J41
P41
D23A20
D22A20
V
S
D24A20N
D23B20
D22B20
P36
J36
S28 XMSN OIL PRESS SWITCH
S26 XMSN OIL TEMP SWITCH
Q15A20
Q31A18N
G
Q15B18
Q31B18
P108
S58 FUEL DIFF PRESS SWITCH
SEE DETAIL B
W42A20
W43A20N
A B C
P80
J80
S195 ENG AIR DIFF PRESS SWITCH
W42B20N
I 72 ENG AIR FILTER WARNING LIGHT
W41A20
5A
CB1 ENG AIR FILTER
28V DC ESS BUS
S58
P108
Q15B18
Q31B18
DETAIL B
A8 HYD CONT PANEL
BOTH
XMSN ONLY
TAIL ROTOR
W19C20
W17A20
W17C20
W18B20
P21
K I H
W19B20
W17B20
W18A20
L
W19A20
J41
P41
E3 CHIP DET 90° GEAR BOX
E2 CHIP DET 42° GEAR BOX
W18C18
W18B18
E1 CHIP DET XMSN
P98
J98
B
205475-140A

NOTE

1. DELETED
2. COOK ELECTRIC CO. P/N 575-1337 AND HYDRA-ELECTRIC P/N 40210 SWITCH. COOK ELECTRIC P/N 712-0063
3. COOK ELECTRIC P/N 575-684, COOK ELECTRIC P/N 712-0063 AND HYDRAULIC RESEARCH P/N GP2B-30001 PRESSURE SWITCH.

Figure F-26. Caution lights system (65-9565 through 66-16867) (Sheet 2 of 3)

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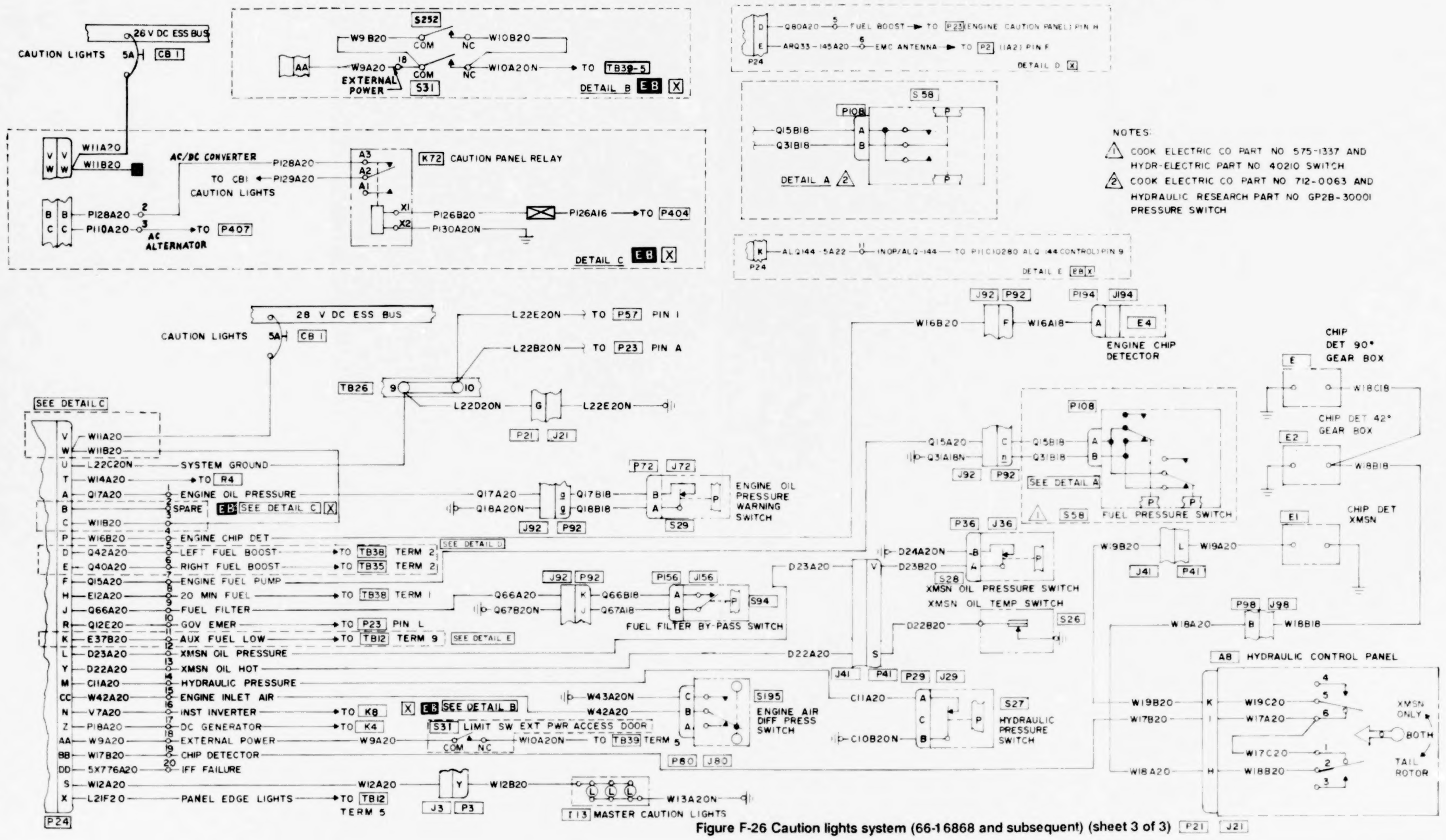
26 V DC ESS BUS
CAUTION LIGHTS
5A
CB 1
S252
W9B20
W10B20
COM
NC
AA
W9A20
W10A20N
TO TB39-5
EXTERNAL POWER
S31
DETAIL B
EB
X
W11A20
W11B20
AC/DC CONVERTER
P128A20
P129A20
TO CB1 CAUTION LIGHTS
K72 CAUTION PANEL RELAY
P126B20
P126A16
TO P404
P130A20N
P110A20
TO P407
AC ALTERNATOR
DETAIL C
Q80A20
FUEL BOOST
TO P23 (ENGINE CAUTION PANEL) PIN H
ARQ33-145A20
EMC ANTENNA
TO P2 (1A2) PIN F
DETAIL D
P24
S58
P108
Q15B18
Q31B18
DETAIL A
ALQ144-5A22
INOP/ALQ-144
TO P11 (C10280 ALQ-144 CONTROL) PIN 9
DETAIL E
28 V DC ESS BUS
CAUTION LIGHTS
L22E20N
TO P57 PIN 1
L22B20N
TO P23 PIN A
TB26
L22D20N
P21
J21
J92
P92
P194
J194
W16B20
W16A18
E4
ENGINE CHIP DETECTOR
CHIP DET 90° GEAR BOX
W18C18
CHIP DET 42° GEAR BOX
E2
W18B18
CHIP DET XMSN
E1
SEE DETAIL C
W11A20
W11B20
L22C20N
SYSTEM GROUND
W14A20
TO R4
Q17A20
ENGINE OIL PRESSURE
SPARE
SEE DETAIL C
W11B20
W16B20
ENGINE CHIP DET
Q42A20
LEFT FUEL BOOST
TO TB38 TERM 2
Q40A20
RIGHT FUEL BOOST
TO TB35 TERM 2
Q15A20
ENGINE FUEL PUMP
E12A20
20 MIN FUEL
TO TB38 TERM 1
Q66A20
FUEL FILTER
Q12E20
GOV EMER
TO P23 PIN L
E37B20
AUX FUEL LOW
TO TB12 TERM 9
D23A20
XMSN OIL PRESSURE
D22A20
XMSN OIL HOT
C11A20
HYDRAULIC PRESSURE
W42A20
ENGINE INLET AIR
V7A20
INST INVERTER
TO K8
SEE DETAIL B
P18A20
DC GENERATOR
TO K4
W9A20
EXTERNAL POWER
S31 LIMIT SW EXT PWR ACCESS DOOR
W10A20N
TO TB39 TERM 5
W17B20
CHIP DETECTOR
5X776A20
IFF FAILURE
W12A20
W12B20
L21F20
PANEL EDGE LIGHTS
TO TB12 TERM 5
J3
P3
W13A20N
I13 MASTER CAUTION LIGHTS
P72
J72
Q17B18
Q18A20N
Q18B18
ENGINE OIL PRESSURE WARNING SWITCH
S29
Q15A20
Q34A18N
Q15B18
Q31B18
SEE DETAIL A
S58
FUEL PRESSURE SWITCH
P36
J36
D24A20N
D23B20
S28
XMSN OIL PRESSURE SWITCH
XMSN OIL TEMP SWITCH
D22B20
S26
Q66A20
Q67B20N
Q66B18
Q67A18
P156
J156
S94
FUEL FILTER BY-PASS SWITCH
W43A20N
W42A20
S195
ENGINE AIR DIFF PRESS SWITCH
P80
J80
C11A20
C10B20N
P29
J29
S27
HYDRAULIC PRESSURE SWITCH
J41
P41
W19B20
W19A20
P98
J98
W18A20
W18B18
A8
HYDRAULIC CONTROL PANEL
W19C20
W17A20
W17C20
W18B20
XMSN ONLY
BOTH
TAIL ROTOR
P21
J21

Figure F-26 Caution lights system (66-16868 and subsequent) (sheet 3 of 3)

NOTES:

⚠1 COOK ELECTRIC CO PART NO 575-1337 AND HYDR-ELECTRIC PART NO 40210 SWITCH

⚠2 COOK ELECTRIC CO PART NO 712-0063 AND HYDRAULIC RESEARCH PART NO GP2B-30001 PRESSURE SWITCH

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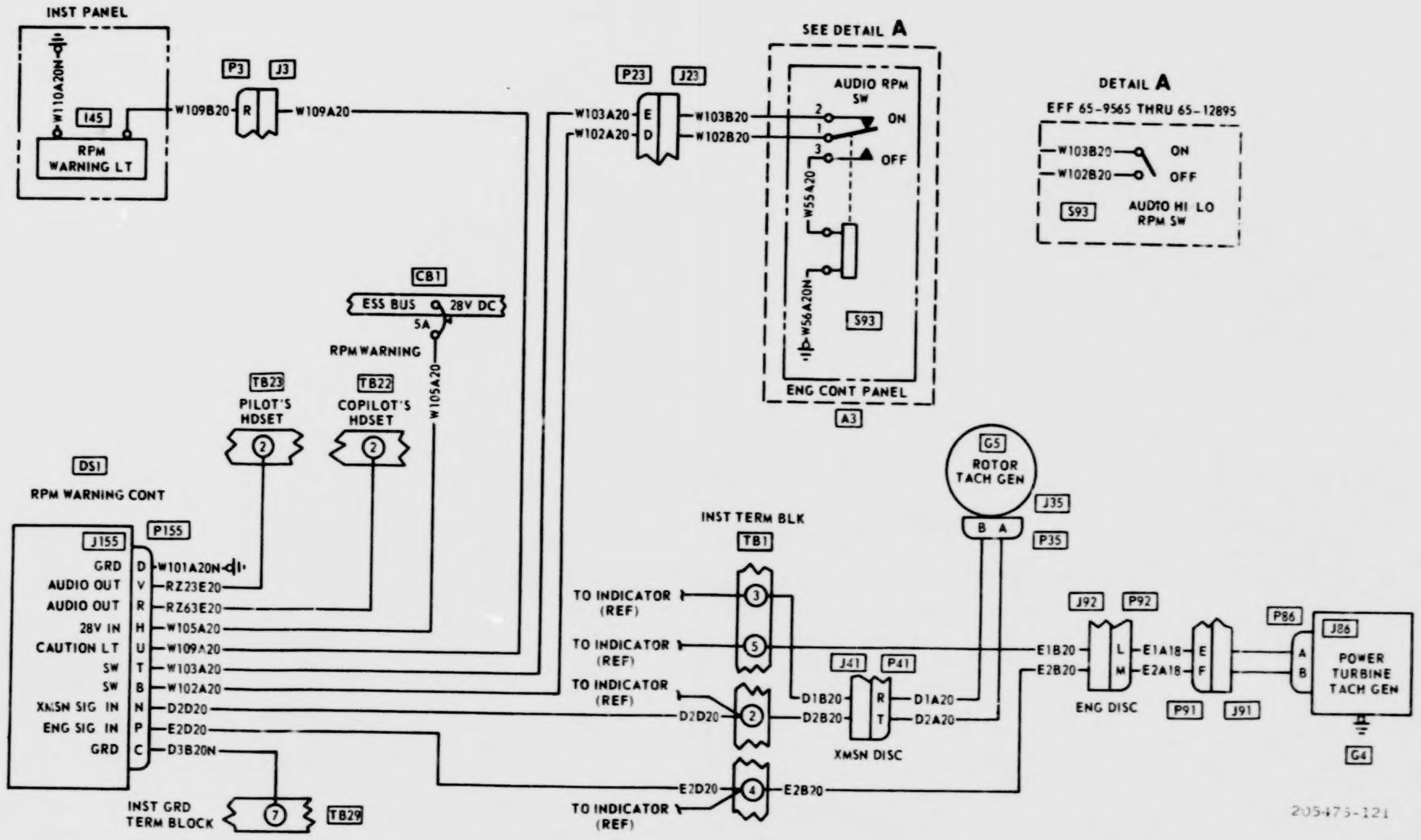
INST PANEL
W110A20N
I45
RPM WARNING LT
W109B20
R
P3
J3
W109A20
P23
J23
W103A20
W102A20
E
D
W103B20
W102B20
SEE DETAIL A
AUDIO RPM SW
2
1
3
ON
OFF
W55A20
W56A20N
S93
ENG CONT PANEL
A3
DETAIL A
EFF 65-9565 THRU 65-12895
W103B20
W102B20
ON
OFF
S93
AUDIO HI LO RPM SW
CB1
ESS BUS
28V DC
5A
RPM WARNING
W105A20
TB23
PILOT'S HDSET
TB22
COPILOT'S HDSET
2
2
DS1
RPM WARNING CONT
J155
P155
GRD D W101A20N
AUDIO OUT V RZ23E20
AUDIO OUT R RZ63E20
28V IN H W105A20
CAUTION LT U W109A20
SW T W103A20
SW B W102A20
XMSN SIG IN N D2D20
ENG SIG IN P E2D20
GRD C D3B20N
INST GRD TERM BLOCK
7
TB29
INST TERM BLK
TB1
TO INDICATOR (REF)
3
TO INDICATOR (REF)
5
TO INDICATOR (REF)
D2D20
2
D2B20
D1B20
J41
P41
R
T
D1A20
D2A20
XMSN DISC
E2D20
4
E2B20
TO INDICATOR (REF)
G5
ROTOR TACH GEN
J35
B A
P35
J92
P92
E1B20
E2B20
L
M
E1A18
E2A18
ENG DISC
E
F
P91
J91
P86
J86
A
B
POWER TURBINE TACH GEN
G4
205475-121

Figure F-27. RPM warning system

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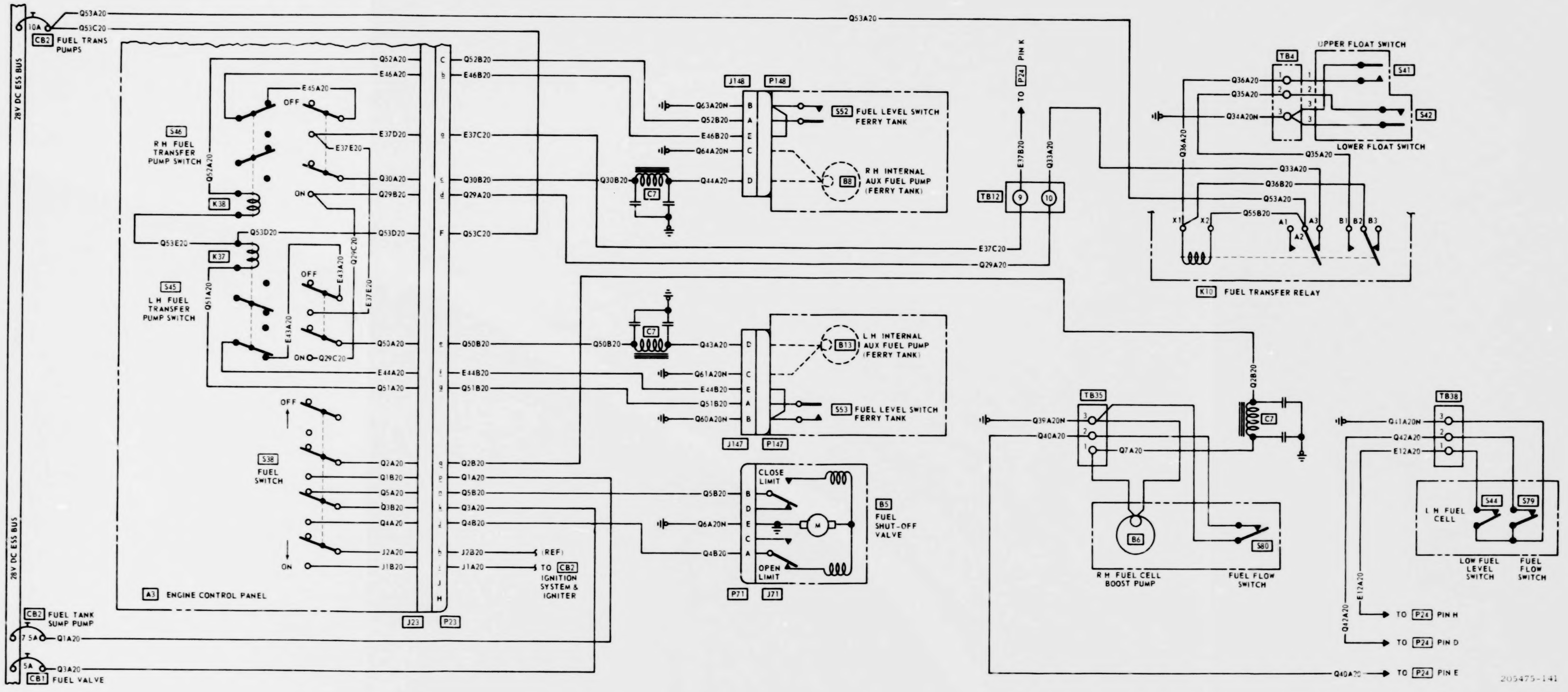
28V DC ESS BUS
10A
CB2 FUEL TRANS PUMPS
Q53A20
Q53C20
Q52A20
E46A20
E45A20
OFF
S46 R H FUEL TRANSFER PUMP SWITCH
E37D20
E37E20
Q30A20
ON
Q29B20
K38
Q53E20
Q53D20
K37
Q29C20
E43A20
S45 L H FUEL TRANSFER PUMP SWITCH
Q51A20
Q50A20
E44A20
S38 FUEL SWITCH
Q2A20
Q1B20
Q5A20
Q3B20
Q4A20
J2A20
J1B20
A3 ENGINE CONTROL PANEL
J23
P23
C
b
a
c
d
F
e
f
g
q
p
n
k
j
h
i
J
H
Q52B20
E46B20
E37C20
Q30B20
Q29A20
Q53C20
Q50B20
E44B20
Q51B20
Q2B20
Q1A20
Q5B20
Q3A20
Q4B20
J2B20
J1A20
(REF)
TO CB2 IGNITION SYSTEM & IGNITER
CB2 FUEL TANK SUMP PUMP
7.5A
5A
CB1 FUEL VALVE
J148
P148
Q63A20N
Q64A20N
Q44A20
C7
S52 FUEL LEVEL SWITCH FERRY TANK
B8 R H INTERNAL AUX FUEL PUMP (FERRY TANK)
Q43A20
Q61A20N
Q60A20N
B13 L H INTERNAL AUX FUEL PUMP (FERRY TANK)
S53 FUEL LEVEL SWITCH FERRY TANK
J147
P147
CLOSE LIMIT
OPEN LIMIT
Q6A20N
M
B5 FUEL SHUT-OFF VALVE
P71
J71
TO P24 PIN K
E37B20
Q33A20
TB12
9
10
TB4
UPPER FLOAT SWITCH
S41
S42
LOWER FLOAT SWITCH
Q36A20
Q35A20
Q34A20N
Q36B20
Q55B20
X1
X2
A1
A2
A3
B1
B2
B3
K10 FUEL TRANSFER RELAY
TB35
Q39A20N
Q40A20
Q7A20
B6
R H FUEL CELL BOOST PUMP
S80
FUEL FLOW SWITCH
TB38
Q41A20N
Q42A20
E12A20
L H FUEL CELL
S44
S79
LOW FUEL LEVEL SWITCH
FUEL FLOW SWITCH
TO P24 PIN H
TO P24 PIN D
TO P24 PIN E
205475-141

Figure F-31. Fuel boost and fuel valve system (Sheet 1 of 2)

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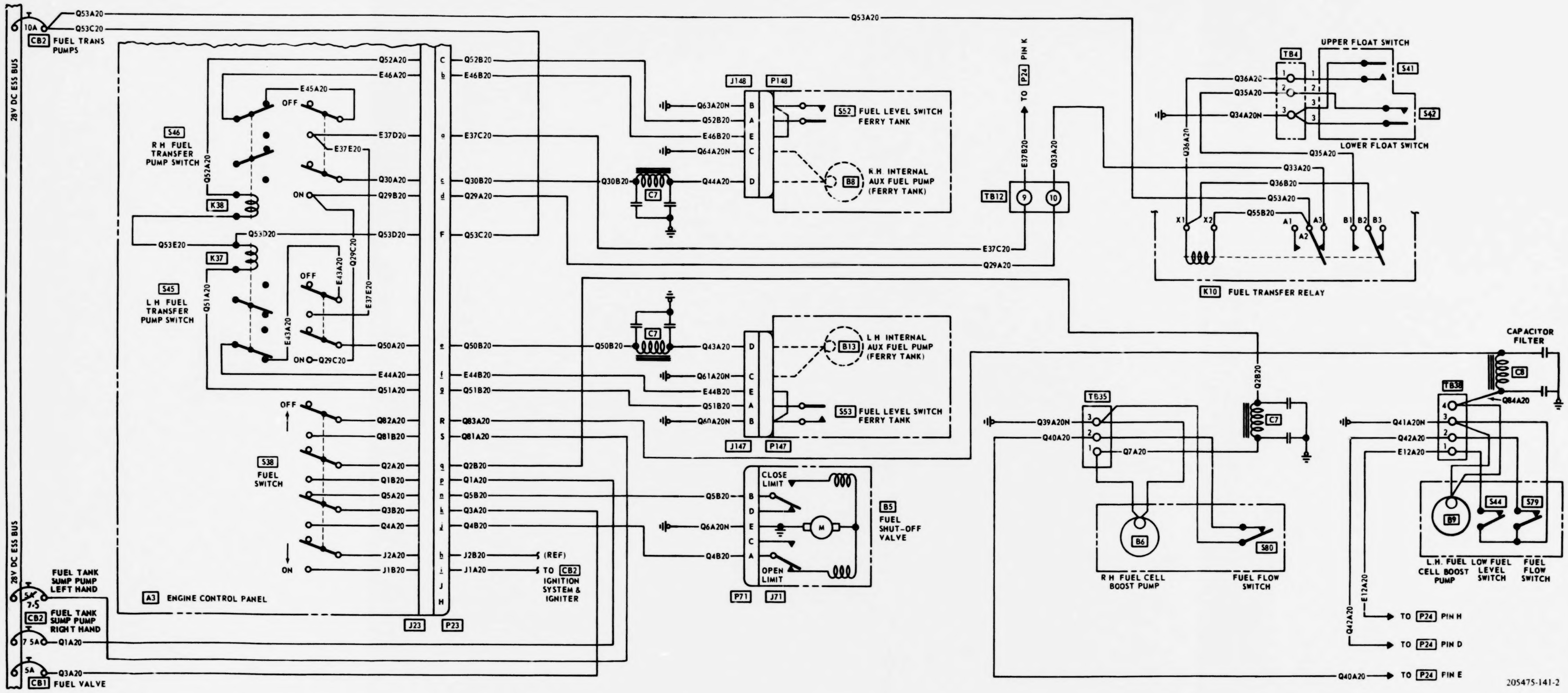
28V DC ESS BUS
10A
CB2 FUEL TRANS PUMPS
Q53A20
Q53C20
A3 ENGINE CONTROL PANEL
S46 R H FUEL TRANSFER PUMP SWITCH
S45 L H FUEL TRANSFER PUMP SWITCH
K38
K37
S38 FUEL SWITCH
OFF
ON
J23
P23
J148
P148
S52 FUEL LEVEL SWITCH FERRY TANK
B8 R H INTERNAL AUX FUEL PUMP (FERRY TANK)
C7
B13 L H INTERNAL AUX FUEL PUMP (FERRY TANK)
S53 FUEL LEVEL SWITCH FERRY TANK
J147
P147
B5 FUEL SHUT-OFF VALVE
CLOSE LIMIT
OPEN LIMIT
P71
J71
(REF)
TO CB2 IGNITION SYSTEM & IGNITER
TO P24 PIN K
TB12
TB4
UPPER FLOAT SWITCH
S41
S42
LOWER FLOAT SWITCH
K10 FUEL TRANSFER RELAY
CAPACITOR FILTER
C8
TB35
B6
R H FUEL CELL BOOST PUMP
S80
FUEL FLOW SWITCH
TB34
B9
S44
S79
L.H. FUEL CELL BOOST PUMP
LOW FUEL LEVEL SWITCH
FUEL FLOW SWITCH
TO P24 PIN H
TO P24 PIN D
TO P24 PIN E
FUEL TANK SUMP PUMP LEFT HAND
CB2 FUEL TANK SUMP PUMP RIGHT HAND
7.5A
5A
CB1 FUEL VALVE
Q1A20
Q3A20
205475-141-2

Figure F-31. Fuel boost and fuel valve system (Sheet 2 of 2)

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*NOTES*

1. *AIRCRAFT WITH BLEED AIR HEAT*
2. *AIRCRAFT WITH MUFF HEATER WINTERIZATION KIT*

   CAUTION

   *BEFORE INSTALLING KIT CONNECT BLEED AIR VALVE B34 TO P146 AND PERFORM OPERATIONAL CHECK VISUALLY VERIFYING VALVE POSITIONS*
3. *WHEN MUFF HEATER KIT INSTALLED, REMOVE WIRE H86A20 FROM TERM 13 OF S85 AND RECONNECT TO TERM 16.*
4. *EFF 68-15214 AND SUBSEQUENT*

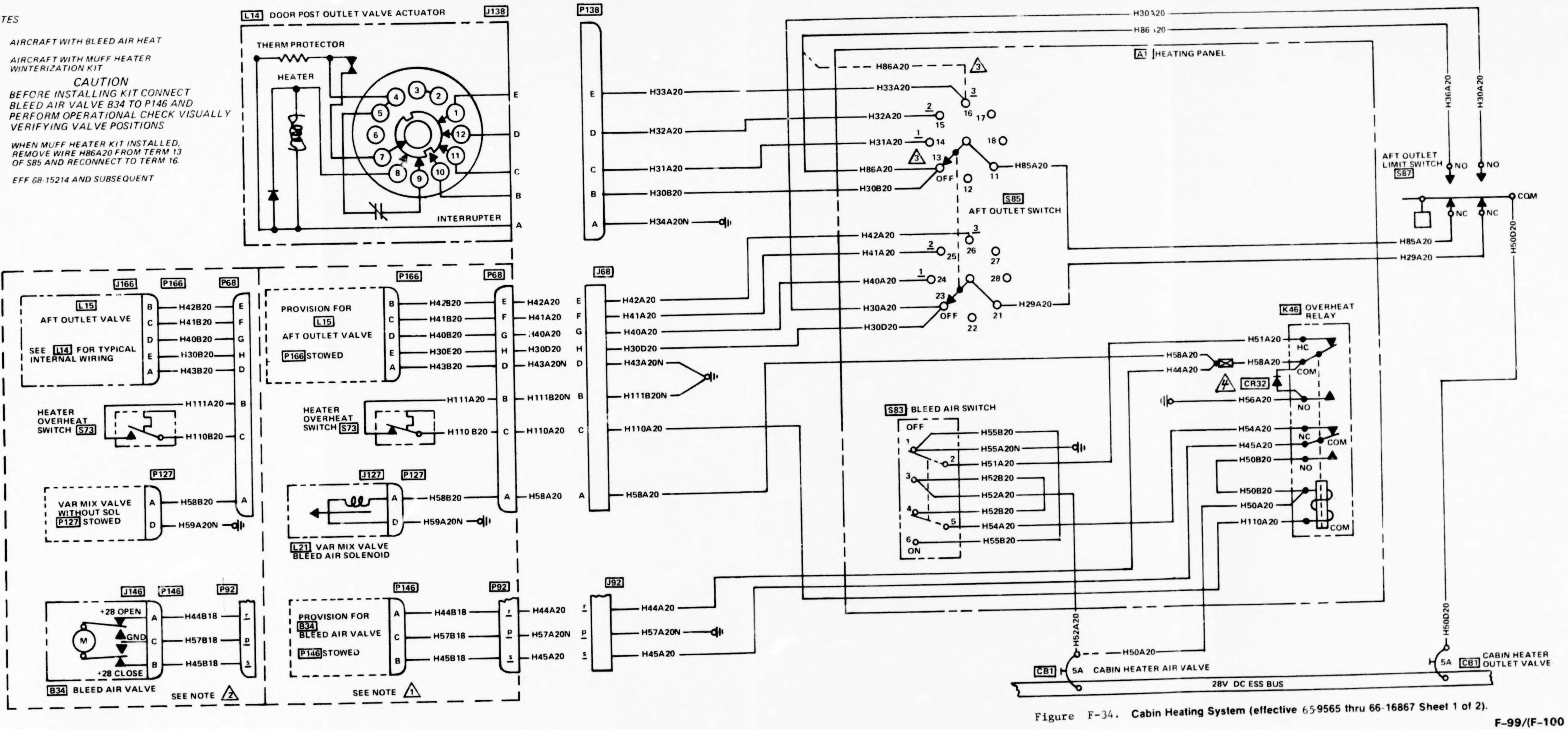
L14 DOOR POST OUTLET VALVE ACTUATOR
J138
THERM PROTECTOR
HEATER
INTERRUPTER
P138
H33A20
H32A20
H31A20
H30B20
H34A20N
H30A20
H86A20
A1 HEATING PANEL
H36A20
S85 AFT OUTLET SWITCH
OFF
H85A20
H29A20
H42A20
H41A20
H40A20
H30D20
AFT OUTLET LIMIT SWITCH S67
NO
NC
COM
J166
P166
P68
L15 AFT OUTLET VALVE
SEE L14 FOR TYPICAL INTERNAL WIRING
H42B20
H41B20
H40B20
H30B20
H43B20
HEATER OVERHEAT SWITCH S73
H111A20
H110B20
P127
VAR MIX VALVE WITHOUT SOL P127 STOWED
H58B20
H59A20N
PROVISION FOR L15 AFT OUTLET VALVE
P166 STOWED
H30E20
H111B20N
H110A20
H58A20
J127
L21 VAR MIX VALVE BLEED AIR SOLENOID
J68
H43A20N
K46 OVERHEAT RELAY
H51A20
H58A20
H44A20
CR32
H56A20
H54A20
H45A20
H50B20
H50A20
S83 BLEED AIR SWITCH
OFF
ON
H55B20
H55A20N
H52B20
H52A20
J146
P146
P92
+28 OPEN
GND
+28 CLOSE
M
H44B18
H57B18
H45B18
B34 BLEED AIR VALVE
SEE NOTE 2
PROVISION FOR B34 BLEED AIR VALVE
P146 STOWED
SEE NOTE 1
J92
H44A20
H57A20N
H45A20
H50D20
CB1 5A CABIN HEATER AIR VALVE
CB1 5A CABIN HEATER OUTLET VALVE
28V DC ESS BUS

Figure F-34. Cabin Heating System (effective 65-9565 thru 66-16867 Sheet 1 of 2).

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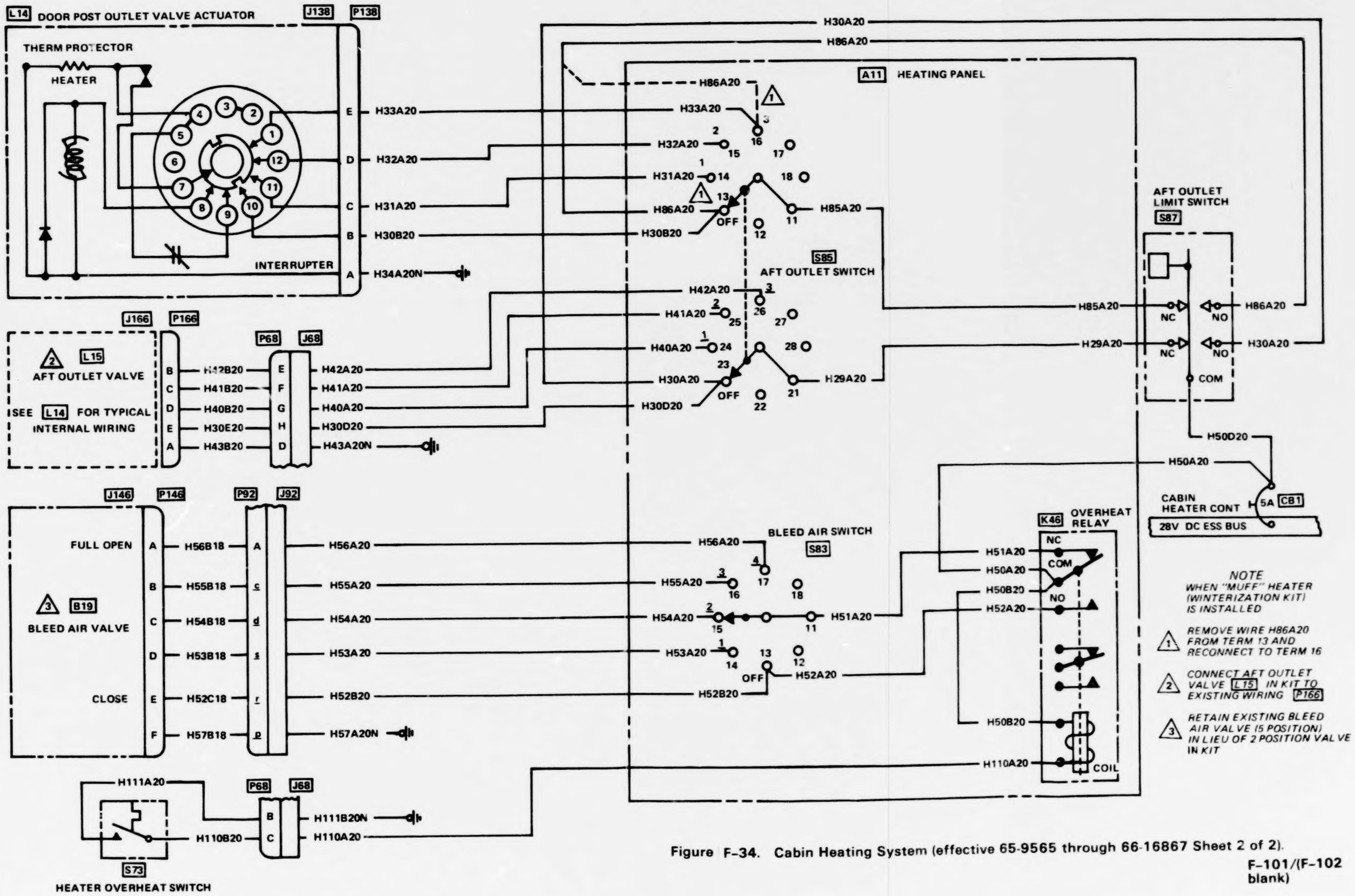
L14 DOOR POST OUTLET VALVE ACTUATOR
J138
P138
THERM PROTECTOR
HEATER
INTERRUPTER
E H33A20
D H32A20
C H31A20
B H30B20
A H34A20N
J166
P166
2 L15 AFT OUTLET VALVE
SEE L14 FOR TYPICAL INTERNAL WIRING
B H42B20
C H41B20
D H40B20
E H30E20
A H43B20
P68
J68
E H42A20
F H41A20
G H40A20
H H30D20
D H43A20N
J146
P146
P92
J92
FULL OPEN
3 B19 BLEED AIR VALVE
CLOSE
A H56B18
B H55B18
C H54B18
D H53B18
E H52C18
F H57B18
H56A20
H55A20
H54A20
H53A20
H52B20
H57A20N
H111A20
H110B20
H111B20N
H110A20
S73
HEATER OVERHEAT SWITCH
H30A20
H86A20
A11 HEATING PANEL
H86A20
H33A20
H32A20
H31A20
H86A20
H30B20
OFF
H85A20
S85
AFT OUTLET SWITCH
H42A20
H41A20
H40A20
H30A20
H30D20
H29A20
BLEED AIR SWITCH
S83
H56A20
H55A20
H54A20
H51A20
H53A20
H52A20
H52B20
K46 OVERHEAT RELAY
NC
COM
NO
H51A20
H50A20
H50B20
H52A20
H50B20
H110A20
COIL
AFT OUTLET LIMIT SWITCH
S87
H85A20
H29A20
NC
NO
COM
H86A20
H30A20
H50D20
H50A20
CABIN HEATER CONT
5A CB1
28V DC ESS BUS

*NOTE*

*WHEN "MUFF" HEATER (WINTERIZATION KIT) IS INSTALLED*

- ⚠1 *REMOVE WIRE H86A20 FROM TERM 13 AND RECONNECT TO TERM 16*
- ⚠2 *CONNECT AFT OUTLET VALVE L15 IN KIT TO EXISTING WIRING P166*
- ⚠3 *RETAIN EXISTING BLEED AIR VALVE (5 POSITION) IN LIEU OF 2 POSITION VALVE IN KIT*

Figure F-34. Cabin Heating System (effective 65-9565 through 66-16867 Sheet 2 of 2).

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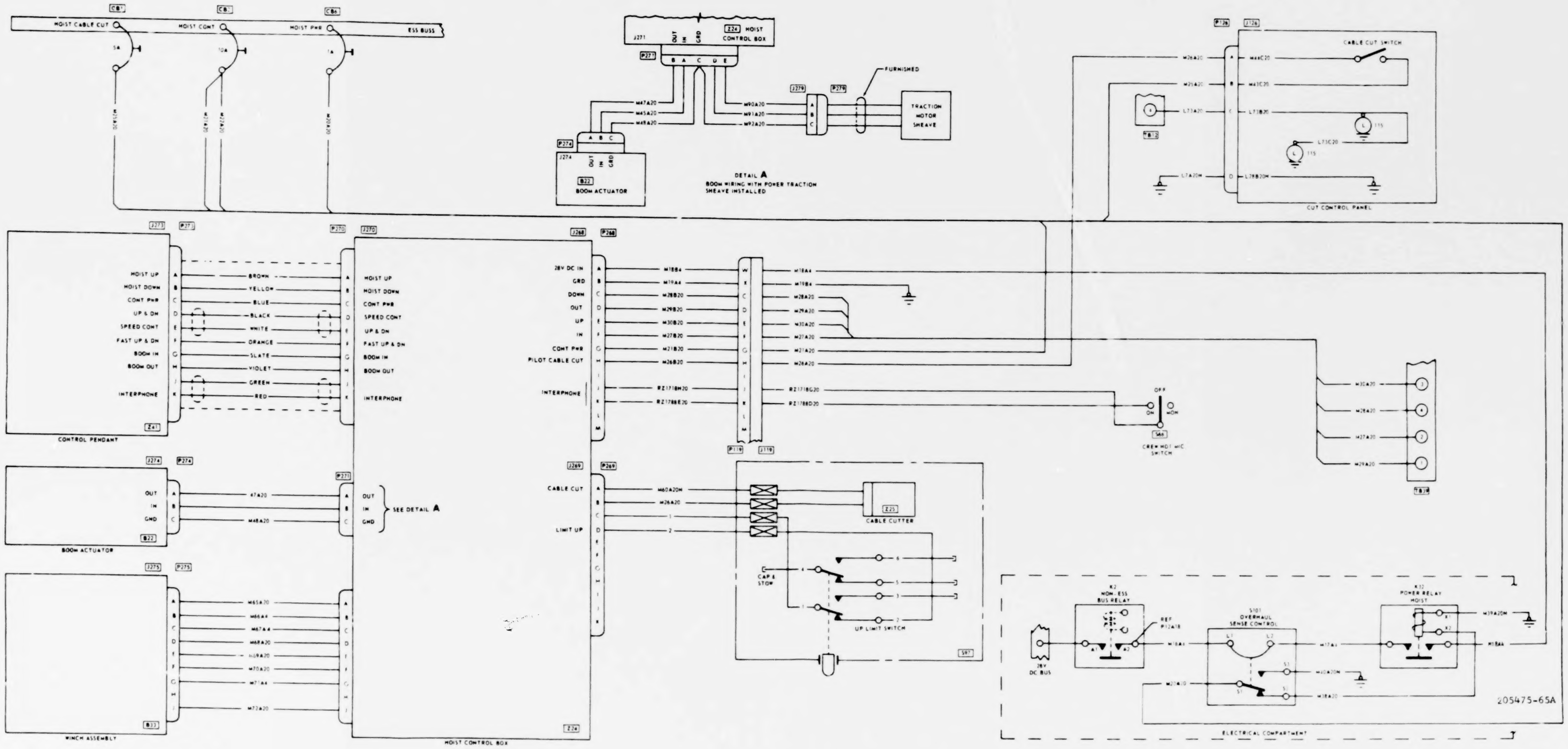
CB7
CB3
CB6
HOIST CABLE CUT
HOIST CONT
HOIST PWR
ESS BUSS
5A
10A
7A
Z24 HOIST CONTROL BOX
J271
OUT
IN
GRD
P271
B A C D E
M47A20
M45A20
M48A20
M90A20
M91A20
M92A20
J279
P279
FURNISHED
TRACTION MOTOR SHEAVE
P274
J274
B22
BOOM ACTUATOR
DETAIL A
BOOM WIRING WITH POWER TRACTION SHEAVE INSTALLED
P126
J126
CABLE CUT SWITCH
M26A20
M25A20
L73A20
L7A20N
M44C20
M43C20
L73B20
L73C20
L78B20N
115
TB12
CUT CONTROL PANEL
J273
P273
P270
J270
HOIST UP
HOIST DOWN
CONT PWR
UP & DN
SPEED CONT
FAST UP & DN
BOOM IN
BOOM OUT
INTERPHONE
BROWN
YELLOW
BLUE
BLACK
WHITE
ORANGE
SLATE
VIOLET
GREEN
RED
Z41
CONTROL PENDANT
J274
P274
P271
OUT
IN
GND
47A20
M48A20
SEE DETAIL A
B22
BOOM ACTUATOR
J275
P275
M65A20
M66A4
M67A4
M68A20
M69A20
M70A20
M71A4
M72A20
B33
WINCH ASSEMBLY
Z24
HOIST CONTROL BOX
J268
P268
28V DC IN
GRD
DOWN
OUT
UP
IN
CONT PWR
PILOT CABLE CUT
INTERPHONE
M18B4
M19A4
M28B20
M29B20
M30B20
M27B20
M21B20
M26B20
RZ171BH20
RZ178BE20
M18A4
M19B4
M28A20
M29A20
M30A20
M27A20
M21A20
M26A20
RZ171BG20
RZ178BD20
P119
J119
OFF
ON
MON
S66
CREW HOT MIC SWITCH
M30A20
M28A20
M27A20
M29A20
TB39
J269
P269
CABLE CUT
LIMIT UP
M60A20N
M26A20
Z25
CABLE CUTTER
CAP & STOW
UP LIMIT SWITCH
S97
K2
NON-ESS BUS RELAY
REF P12A18
28V DC BUS
S101
OVERHAUL SENSE CONTROL
L1
L2
S1
K12
POWER RELAY HOIST
X1
X2
M39A20N
M18A4
M17A4
M40A20N
M37A20
M38A20
ELECTRICAL COMPARTMENT
205475-65A

Figure F-38. Rescue hoist system (prior to 65-9565) (Sheet 1 of 2)

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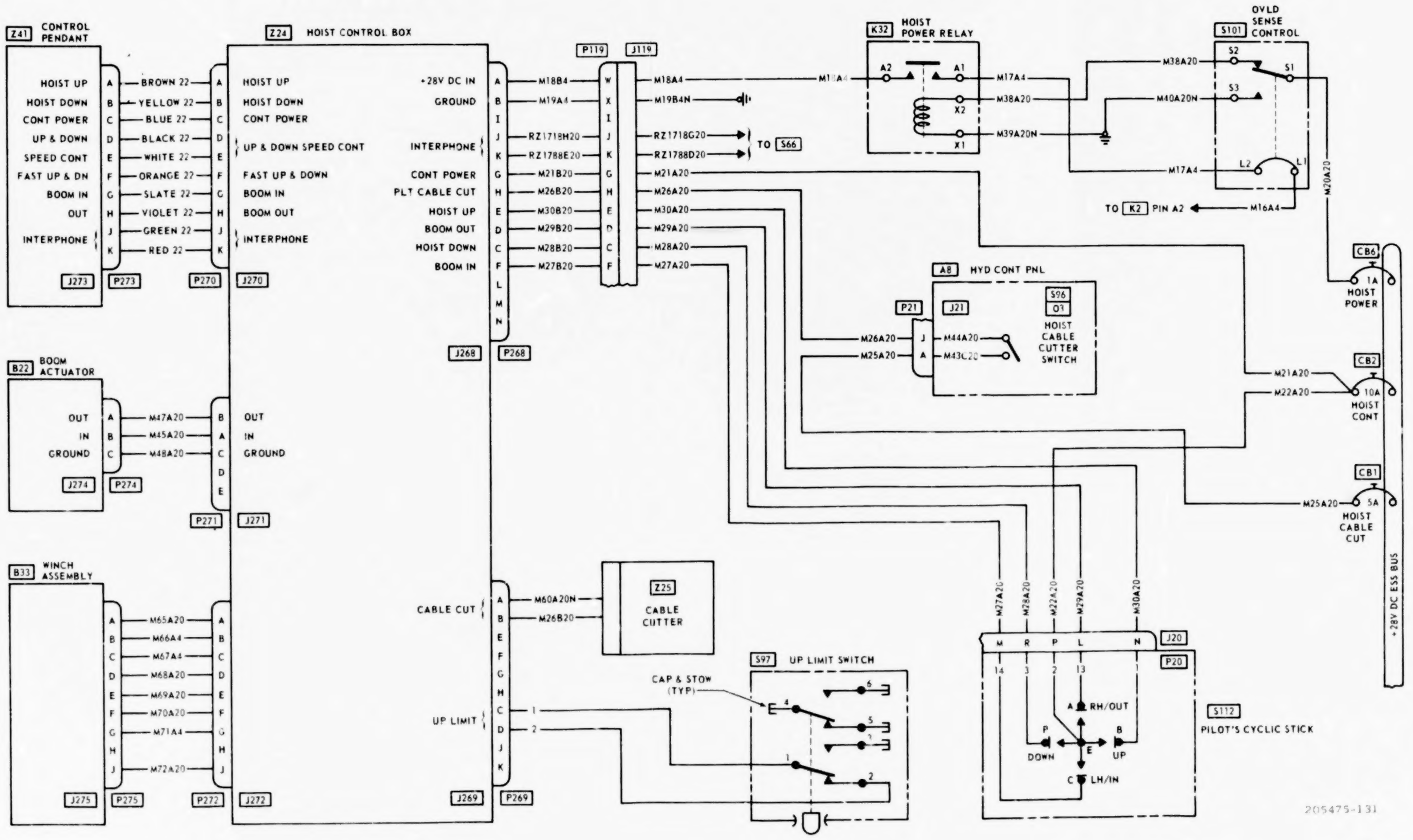
Z41 CONTROL PENDANT
HOIST UP
HOIST DOWN
CONT POWER
UP & DOWN
SPEED CONT
FAST UP & DN
BOOM IN
OUT
INTERPHONE
BROWN 22
YELLOW 22
BLUE 22
BLACK 22
WHITE 22
ORANGE 22
SLATE 22
VIOLET 22
GREEN 22
RED 22
J273
P273
P270
J270
Z24 HOIST CONTROL BOX
HOIST UP
HOIST DOWN
CONT POWER
UP & DOWN SPEED CONT
FAST UP & DOWN
BOOM IN
BOOM OUT
INTERPHONE
+28V DC IN
GROUND
INTERPHONE
CONT POWER
PLT CABLE CUT
HOIST UP
BOOM OUT
HOIST DOWN
BOOM IN
M18B4
M19A4
RZ1718H20
RZ1788E20
M21B20
M26B20
M30B20
M29B20
M28B20
M27B20
J268
P268
P119
J119
M18A4
M19B4N
RZ1718G20
RZ1788D20
TO S66
M21A20
M26A20
M30A20
M29A20
M28A20
M27A20
K32 HOIST POWER RELAY
A2
A1
X2
X1
M17A4
M38A20
M39A20N
S101 OVLD SENSE CONTROL
S2
S1
S3
L2
L1
M38A20
M40A20N
M17A4
M20A20
TO K2 PIN A2
M16A4
CB6
1A
HOIST POWER
A8 HYD CONT PNL
P21
J21
S96
O1
HOIST CABLE CUTTER SWITCH
M26A20
M25A20
M44A20
M43C20
CB2
M21A20
M22A20
10A
HOIST CONT
CB1
M25A20
5A
HOIST CABLE CUT
+28V DC ESS BUS
B22 BOOM ACTUATOR
OUT
IN
GROUND
M47A20
M45A20
M48A20
OUT
IN
GROUND
J274
P274
P271
J271
B33 WINCH ASSEMBLY
M65A20
M66A4
M67A4
M68A20
M69A20
M70A20
M71A4
M72A20
J275
P275
P272
J272
CABLE CUT
UP LIMIT
M60A20N
M26B20
J269
P269
Z25
CABLE CUTTER
S97 UP LIMIT SWITCH
CAP & STOW (TYP)
M27A20
M28A20
M22A20
M29A20
M30A20
J20
P20
M
R
P
L
N
14
3
2
13
1
A RH/OUT
P
DOWN
E
B
UP
C LH/IN
S112
PILOT'S CYCLIC STICK
205475-131

Figure F-38. Rescue hoist system (65-9565 and subsequent) (Sheet 2 of 2)

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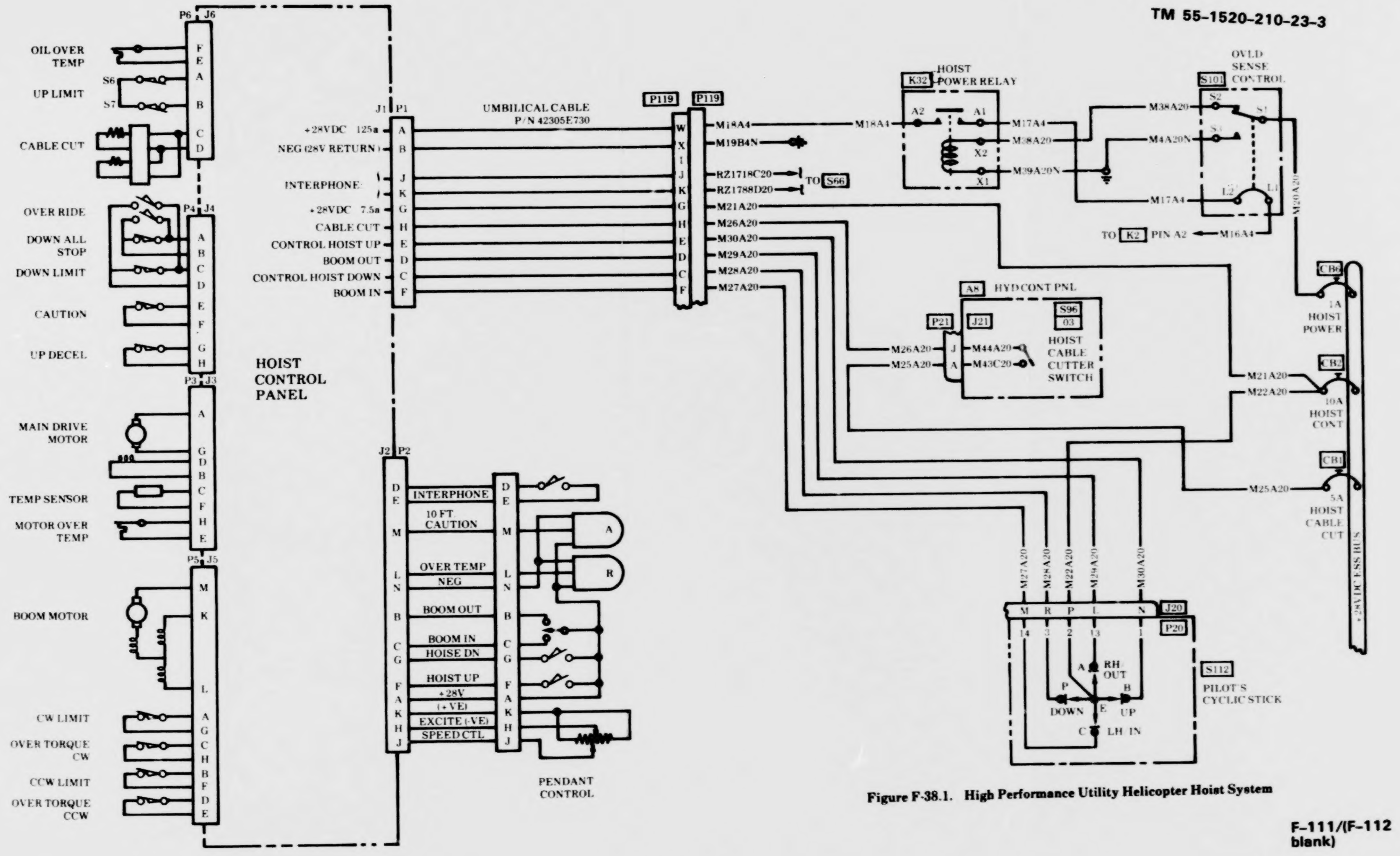
OIL OVER TEMP
UP LIMIT
S6
S7
CABLE CUT
OVER RIDE
DOWN ALL STOP
DOWN LIMIT
CAUTION
UP DECEL
MAIN DRIVE MOTOR
TEMP SENSOR
MOTOR OVER TEMP
BOOM MOTOR
CW LIMIT
OVER TORQUE CW
CCW LIMIT
OVER TORQUE CCW
P6 J6
P4 J4
P3 J3
P5 J5
HOIST CONTROL PANEL
J1 P1
+28VDC 125a
NEG (28V RETURN)
INTERPHONE
+28VDC 7.5a
CABLE CUT
CONTROL HOIST UP
BOOM OUT
CONTROL HOIST DOWN
BOOM IN
UMBILICAL CABLE P/N 42305E730
P119
M18A4
M19B4N
RZ1718C20
RZ1788D20
TO S66
M21A20
M26A20
M30A20
M29A20
M28A20
M27A20
K32 HOIST POWER RELAY
A2
A1
X2
X1
M17A4
M38A20
M39A20N
S101 OVLD SENSE CONTROL
S2
S1
S3
L2
L1
M4A20N
M20A20
TO K2 PIN A2
M16A4
A8 HYD CONT PNL
P23
J21
S96
03
M26A20
M25A20
M44A20
M43C20
HOIST CABLE CUTTER SWITCH
CB6
1A HOIST POWER
CB2
10A HOIST CONT
M21A20
M22A20
CB1
5A HOIST CABLE CUT
+28VDC ESS BUS
J20
P20
M27A20
M28A20
M22A20
M29A20
M30A20
S112 PILOT'S CYCLIC STICK
RH/ OUT
DOWN
UP
LH/ IN
J2 P2
INTERPHONE
10 FT CAUTION
OVER TEMP
NEG
BOOM OUT
BOOM IN
HOISE DN
HOIST UP
+28V
(+VE)
EXCITE (-VE)
SPEED CTL
PENDANT CONTROL

Figure F-38.1. High Performance Utility Helicopter Hoist System

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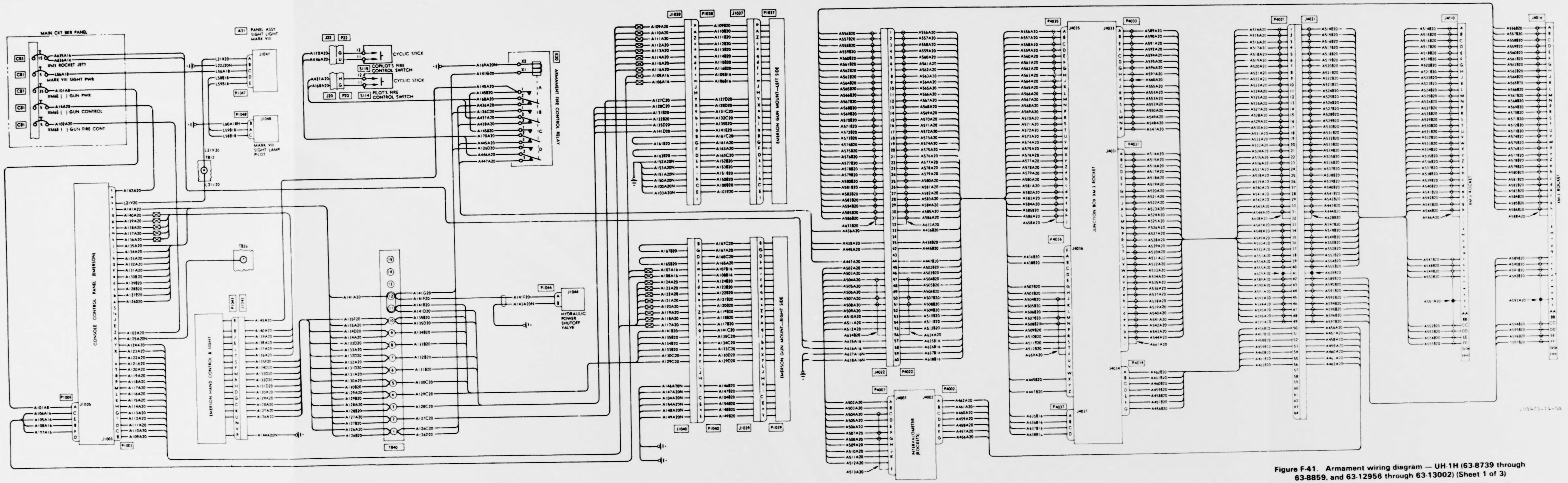
MAIN CKT BKR PANEL
CB3
XM3 ROCKET JETT
CB1
MARK VIII SIGHT PWR
CB7
XM6E ( ) GUN PWR
CB1
XM6E ( ) GUN CONTROL
CB1
XM6E ( ) GUN FIRE CONT
A31
PANEL ASSY SIGHT LIGHT MARK VIII
J1047
P1347
P1048
J1048
MARK VIII SIGHT LAMP PILOT
TB12
J22
P22
CYCLIC STICK
S115
COPILOT'S FIRE CONTROL SWITCH
CYCLIC STICK
J20
P20
S114
PILOT'S FIRE CONTROL SWITCH
K20
ARMAMENT FIRE CONTROL RELAY
CONSOLE CONTROL PANEL (EMERSON)
J1005
P1005
TB26
EMERSON HAND CONTROL & SIGHT
TB40
P1044
J1044
HYDRAULIC POWER SHUTOFF VALVE
J1038
P1038
J1037
P1037
EMERSON GUN MOUNT—LEFT SIDE
J1040
P1040
J1039
P1039
EMERSON GUN MOUNT—RIGHT SIDE
J4023
P4022
P4007
J4007
P4002
INTERVALOMETER (ROCKETS)
P4035
J4035
J4033
P4033
JUNCTION BOX XM3 ROCKET
P4036
J4036
P4031
J4031
P4034
J4034
P4037
J4037
P4021
J4021
J4010
XM3 ROCKET
J4016
XM3 ROCKET
205475-14-5A

Figure F-41. Armament wiring diagram — UH-1H (63-8739 through 63-8859, and 63-12956 through 63-13002) (Sheet 1 of 3)

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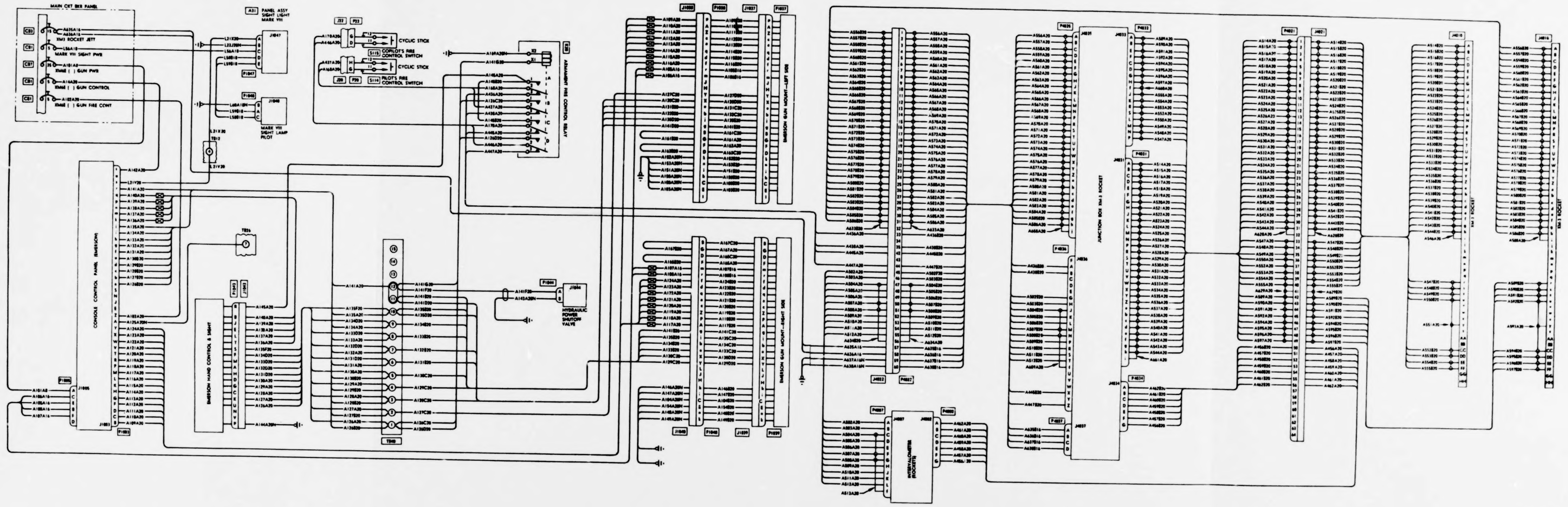
MAIN CKT BKR PANEL
CB3
CB1
CB7
XM3 ROCKET JETT
MARK VIII SIGHT PWR
XM6E ( ) GUN PWR
XM6E ( ) GUN CONTROL
XM6E ( ) GUN FIRE CONT
A31 PANEL ASSY SIGHT LIGHT MARK VIII
J1047
P1047
P1048
J1048
MARK VIII SIGHT LAMP PILOT
TB12
J22
P22
CYCLIC STICK
S115 COPILOT'S FIRE CONTROL SWITCH
J20
P20
S114 PILOT'S FIRE CONTROL SWITCH
K28
ARMAMENT FIRE CONTROL RELAY
CONSOLE CONTROL PANEL (EMERSON)
J1005
P1005
J1003
P1003
TB26
P1043
J1043
EMERSON HAND CONTROL & SIGHT
TB40
P1044
J1044
HYDRAULIC POWER SHUTOFF VALVE
J1038
P1038
J1037
P1037
EMERSON GUN MOUNT—LEFT SIDE
EMERSON GUN MOUNT—RIGHT SIDE
J1040
P1040
J1039
P1039
J4022
P4027
P4007
J4007
J4002
P4002
INTERVALOMETER (ROCKETS)
P4035
J4035
J4033
P4033
P4031
J4031
P4036
J4036
P4037
J4037
J4034
P4034
JUNCTION BOX XM-3 ROCKET
P4021
J4021
J4010
J4016
XM-3 ROCKET

205475-2C-5A

Figure F-41. Armament wiring diagram — UH-1H (64-23492 through 64-13901) (Sheet 2 of 3)

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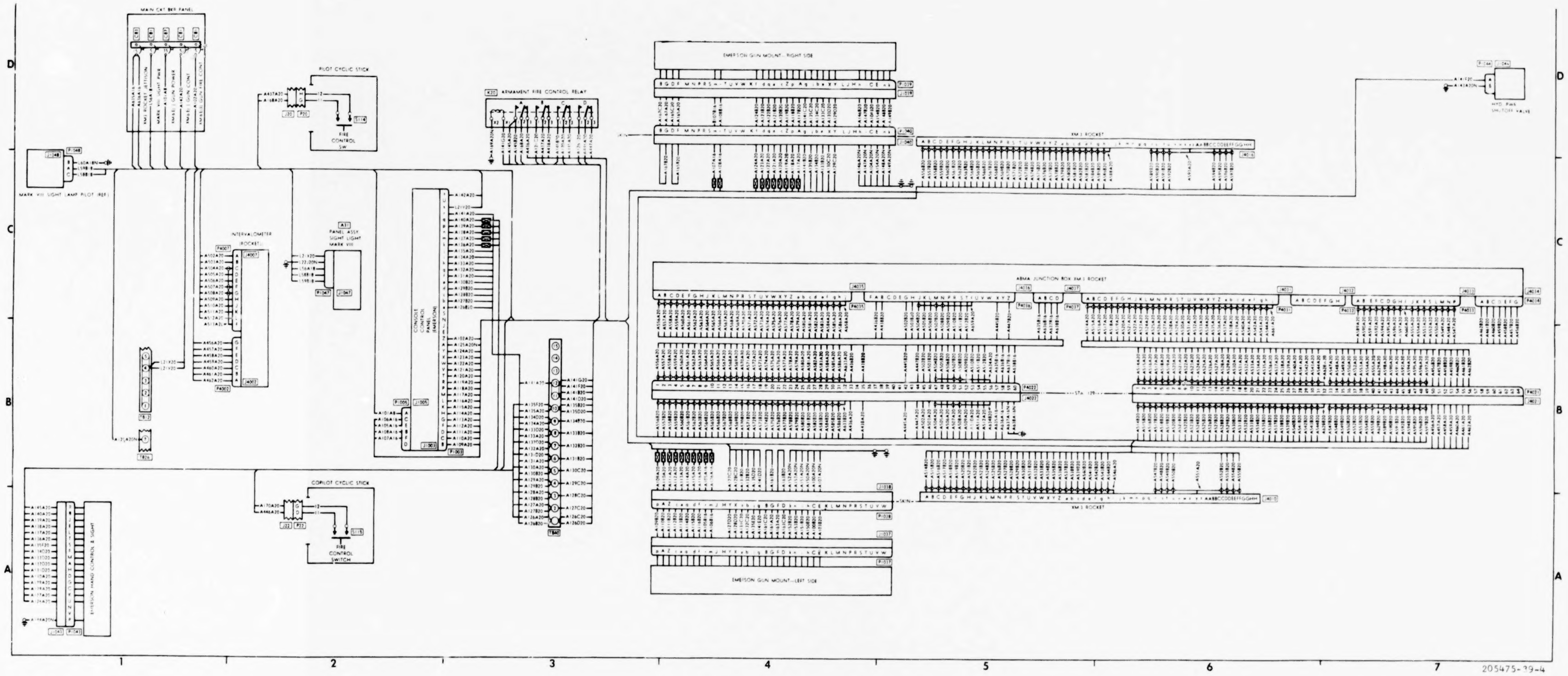
MAIN CKT BKR PANEL
XM3 ROCKET JETTISON
MARK VIII SIGHT PWR
XM6E1 GUN POWER
XM6E1 GUN CONT
XM6E1 GUN FIRE CONT
PILOT CYCLIC STICK
FIRE CONTROL SW
J20
P20
S114
K20
ARMAMENT FIRE CONTROL RELAY
J1048
P1048
MARK VIII SIGHT LAMP PILOT (REF)
INTERVALOMETER (ROCKET)
P4007
J4007
P4002
J4002
A31
PANEL ASSY SIGHT LIGHT MARK VIII
P1047
J1047
CONSOLE CONTROL PANEL (EMERSON)
P1005
J1005
J1003
P1003
TB12
TB26
TB40
COPILOT CYCLIC STICK
J22
P22
S115
FIRE CONTROL SWITCH
EMERSON HAND CONTROL & SIGHT
J1043
P1043
EMERSON GUN MOUNT—RIGHT SIDE
P1039
J1039
P1040
J1040
SKIN
XM3 ROCKET
J4016
P1044
J1044
HYD PWR SHUTOFF VALVE
ARMA JUNCTION BOX XM3 ROCKET
J4015
P4015
J4036
P4036
J4037
P4037
J4011
P4011
J4012
P4012
J4013
P4013
J4014
P4014
P4022
J4022
STA 129
P4021
J4021
J1038
P1038
J1037
P1037
XM3 ROCKET
J4010
EMERSON GUN MOUNT—LEFT SIDE
A
B
C
D
1
2
3
4
5
6
7
205475-39-4

Figure F-41. Armament wiring diagram — UH-1H (65-9565 through 65-10135, 65-12773 through 65-12776, 65-12847 through 65-12852, and 65-12857 through 65-12895) (Sheet 3 of 3)

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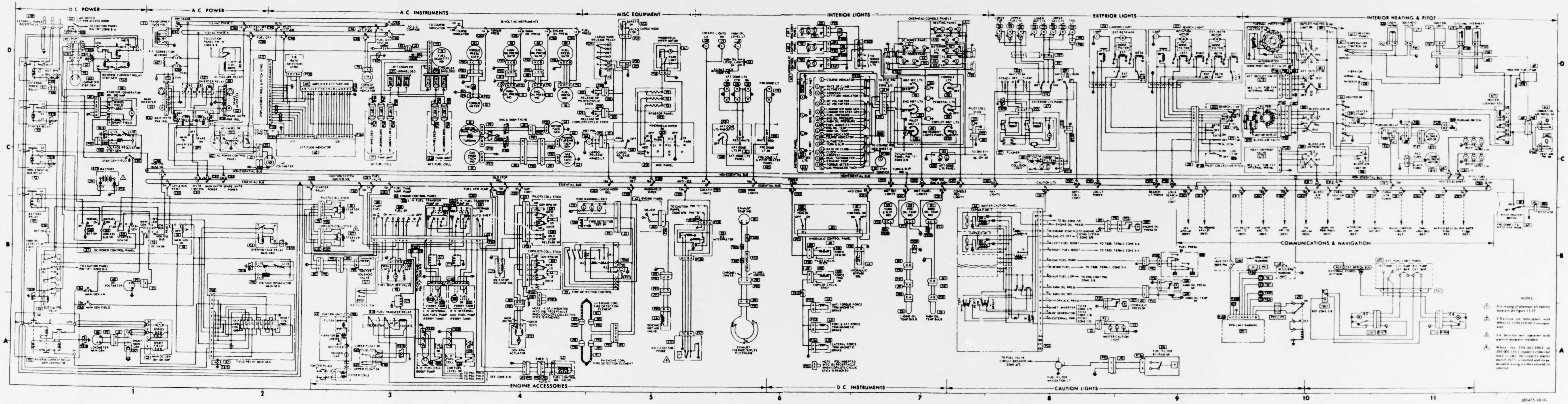
D C POWER
A C POWER
A C INSTRUMENTS
MISC EQUIPMENT
INTERIOR LIGHTS
EXTERIOR LIGHTS
INTERIOR HEATING & PITOT
COMMUNICATIONS & NAVIGATION
ENGINE ACCESSORIES
D C INSTRUMENTS
CAUTION LIGHTS
ESSENTIAL BUS
NON-ESSENTIAL BUS
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
205475-10-1G

NOTES

1. For wiring of alternate aft battery location see figure 13-19

2. Effective on helicopters with MWO 55-1520-210-30-3 incorporated

3. Ice detector not operative with particle separator installed

4. When the 204-001-290-9 or 205-001-116-1 copilot's collective stick is used, the copilot's starter switch (S77) is omitted and its associated wiring is either stowed or omitted

Figure F-42. Elect ical sch matic — UH-1H (62-2106 through 62-2113, and 62-12351 through 62-12372)

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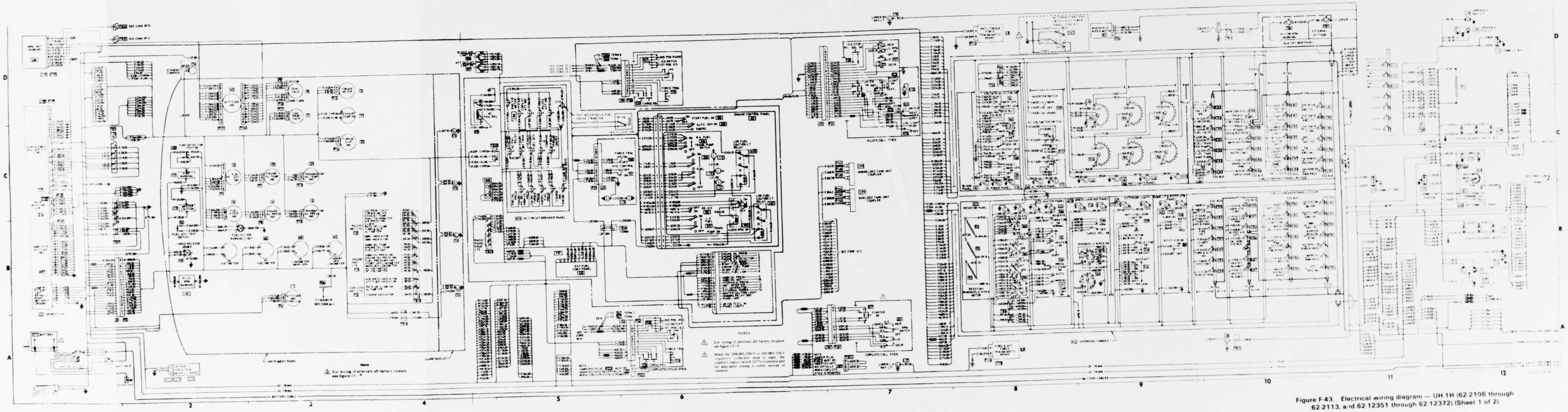
D
C
B
A
2
3
4
5
6
7
8
9
10
11
12
INSTRUMENT PANEL
GLARE SHIELD
ENGINE CONTROL PANEL
AC CIRCUIT BREAKER PANEL
DC POWER PANEL
OVERHEAD CONSOLE
PILOTS COLL STICK
COPILOTS COLL STICK
COPILOTS CYCLIC STICK
DC TRUNK
AC TRUNK
BATTERY CABLES

NOTES

△1 For wiring of alternate aft battery location see figure 13-19.

△2 When the 204-001-290-9 or 205-001-116-1 copilot's collective stick is used, the copilot's starter switch (S77) is omitted and its associated wiring is either stowed or omitted.

Note

△1 For wiring of alternate aft battery location see figure 13-19.

Figure F-43. Electrical wiring diagram — UH-1H (62-2106 through 62-2113, and 62-12351 through 62-12372) (Sheet 1 of 2)

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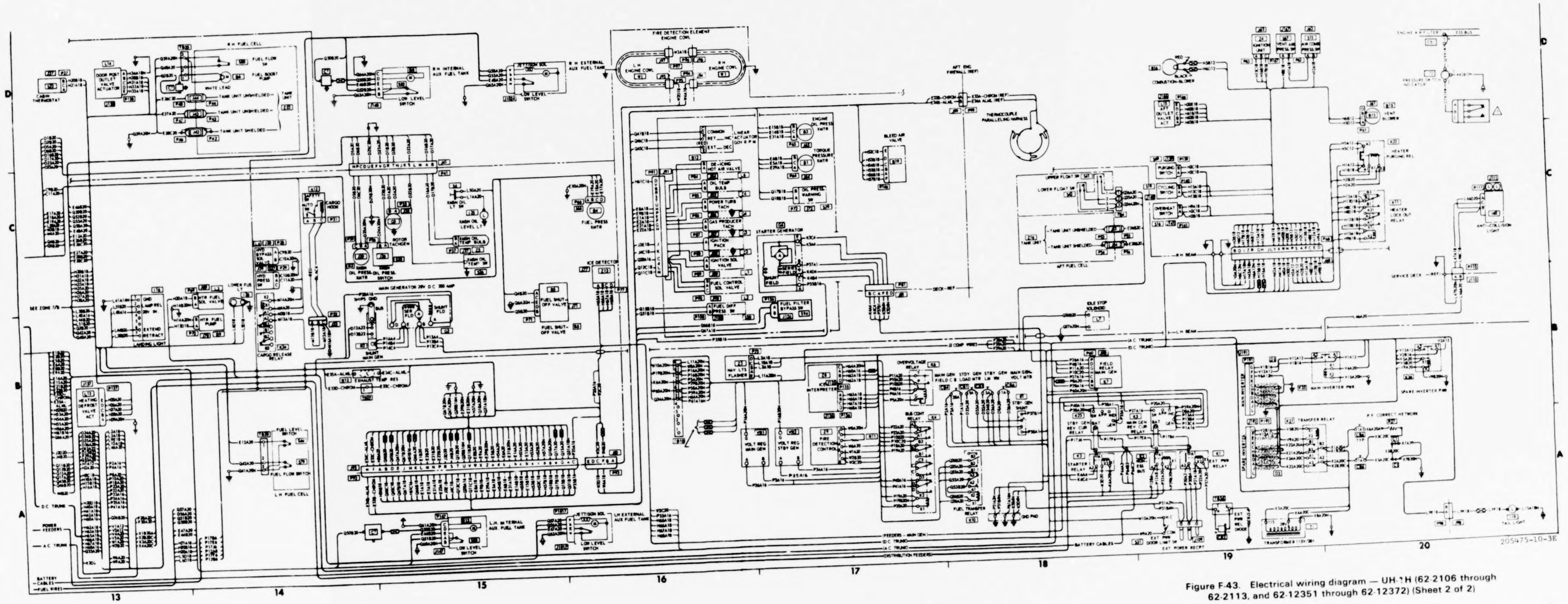
13
14
15
16
17
18
19
20
A
B
C
D
FIRE DETECTION ELEMENT ENGINE COWL
STARTER GENERATOR
TAIL LIGHT
TRANSFORMER 115V/28V
EXT PWR REL DIODE
EXT PWR DOOR LIMIT SW
EXT POWER RECPT
205475-10-3E

Figure F-43. Electrical wiring diagram — UH-1H (62-2106 through 62-2113, and 62-12351 through 62-12372) (Sheet 2 of 2)

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D C POWER
A C POWER
A C INSTRUMENTS
MISC EQUIPMENT
INTERIOR LIGHTS
EXTERIOR LIGHTS
INTERIOR HEATING & PITOT
COMMUNICATIONS & NAVIGATION
ENGINE ACCESSORIES
D C INSTRUMENTS
CAUTION LIGHTS
EXT FUEL
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
205475 13J

NOTES

1. 63-8739 thru 63-8803
2. 63-8739 thru 63-8859
3. 63-12956 thru 63-13002
5. For wiring of alternate aft battery location. See figure 13-19.
6. Only effective on helicopters with MWO 55-1520-210-30-3 incorporated
7. When the 204-001-290-9 or 205-001-116-1 copilot's collective stick is used, the copilot's starter switch (S77) is omitted and its associated wiring is either stowed or omitted.

Figure F-44. Electrical schematic — UH-1H (63-8739 through 63-8859, and 63-12956 through 63-13002)

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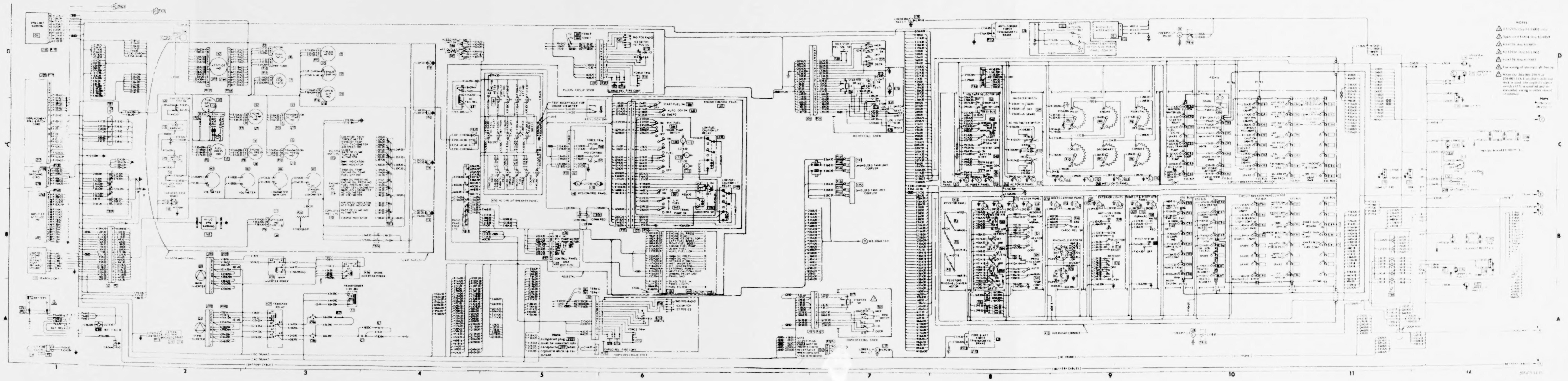

NOTES

1. 63-12956 thru 63-13002 only
2. Spare on 63-8804 thru 63-8859
3. 63-8739 thru 63-8859
4. 63-12956 thru 63-13002
5. 63-8739 thru 63-8803
6. For wiring of alternate aft battery
7. When the 204-001-290-9 or 205-001-116-1 copilot's collective stick is used, the copilot's starter switch (S77) is omitted and its associated wiring is either stowed or omitted.

Figure F-45 Electrical wiring diagram — UH-1D (63-8739 through 63-8859, and 63-12956 through 63-13002) (Sheet 1 of 2)

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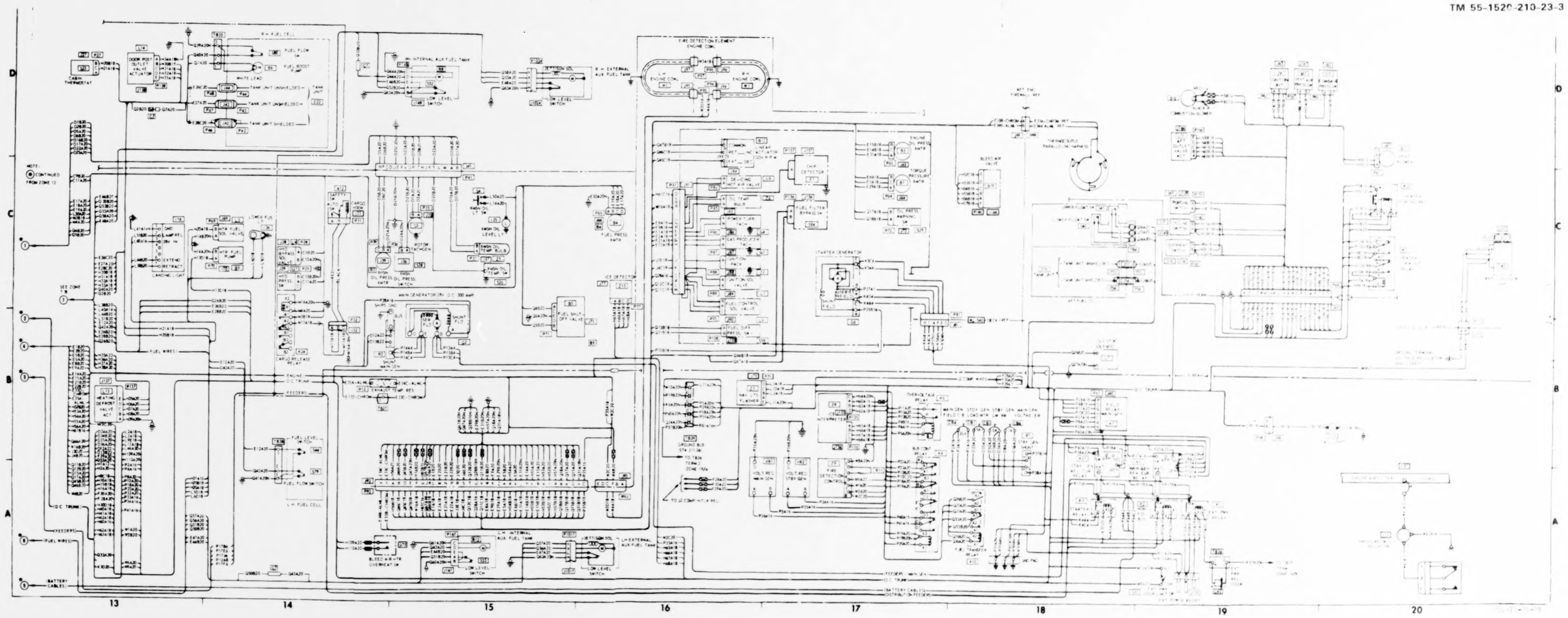
D
C
B
A
13
14
15
16
17
18
19
20
STARTER GENERATOR
FIRE DETECTION ELEMENT
ENGINE COMP.

Figure F-45. Electrical wiring diagram — UH-1D (63-8739 through 63-8895, and 63-12956 through 63-13002) (Sheet 2 of 2)

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